

Cys	Asn	Val	Thr	Gly	Tyr	Glu	Gly	Pro	Ala	Gln	Gln	Asn	Phe	Glu	Trp
50						55						60			
Phe	Leu	Tyr	Arg	Pro	Glu	Ala	Pro	Asp	Thr	Ala	Leu	Gly	Ile	Val	Ser
65					70				75				80		
Thr	Lys	Asp	Thr	Gln	Phe	Ser	Tyr	Ala	Val	Phe	Lys	Ser	Arg	Val	Val
				85					90				95		
Ala	Gly	Glu	Val	Gln	Val	Gln	Arg	Leu	Gln	Gly	Asp	Ala	Val	Val	Leu
				100				105				110			
Lys	Ile	Ala	Arg	Leu	Gln	Ala	Gln	Asp	Ala	Gly	Ile	Tyr	Glu	Cys	His
				115				120				125			
Thr	Pro	Ser	Thr	Asp	Thr	Arg	Tyr	Leu	Gly	Ser	Tyr	Ser	Gly	Lys	Val
					130			135			140				
Glu	Leu	Arg	Val	Leu	Pro	Asp	Val	Leu	Gln	Val	Ser	Ala	Ala	Pro	Pro
					145			150			155			160	
Gly	Pro	Arg	Gly	Arg	Gln	Ala	Pro	Thr	Ser	Pro	Pro	Arg	Met	Thr	Val
					165				170				175		
His	Glu	Gly	Gln	Glu	Leu	Ala	Leu	Gly	Cys	Leu	Ala	Arg	Thr	Ser	Thr
					180				185				190		
Gln	Lys	His	Thr	His	Leu	Ala	Val	Ser	Phe	Gly	Arg	Ser	Val	Pro	Glu
					195			200				205			
Ala	Pro	Val	Gly	Arg	Ser	Thr	Leu	Gln	Glu	Val	Val	Gly	Ile	Arg	Ser
					210			215			220				
Asp	Leu	Ala	Val	Glu	Ala	Gly	Ala	Pro	Tyr	Ala	Glu	Arg	Leu	Ala	Ala
					225			230			235			240	
Gly	Glu	Leu	Arg	Leu	Gly	Lys	Glu	Gly	Thr	Asp	Arg	Tyr	Arg	Met	Val
					245				250				255		
Val	Gly	Gly	Ala	Gln	Ala	Gly	Asp	Ala	Gly	Thr	Tyr	His	Cys	Thr	Ala
					260				265				270		
Ala	Glu	Trp	Ile	Gln	Asp	Pro	Asp	Gly	Ser	Trp	Ala	Gln	Ile	Ala	
					275			280			285				

<210> 2172

<211> 613

<212> PRT

<213> Homo sapiens

<400> 2172

Met	Gly	Ala	Leu	Arg	Pro	Thr	Leu	Leu	Pro	Pro	Ser	Leu	Pro	Leu	Leu
1					5				10			15			

Leu	Leu	Leu	Met	Leu	Gly	Met	Gly	Cys	Trp	Ala	Arg	Glu	Val	Leu	Val
					20			25				30			

Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser

35	40	45
Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp		
50	55	60
Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser		
65	70	75
Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val		
85	90	95
Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu		
100	105	110
Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His		
115	120	125
Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val		
130	135	140
Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro		
145	150	155
Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val		
165	170	175
His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr		
180	185	190
Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu		
195	200	205
Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser		
210	215	220
Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala		
225	230	235
Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val		
245	250	255
Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala		
260	265	270
Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu		
275	280	285
Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln		
290	295	300
Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu		
305	310	315
Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly		
325	330	335
Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala		
340	345	350
Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly		

355	360	365
Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val		
370	375	380
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp		
385	390	395
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly		
405	410	415
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val		
420	425	430
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala		
435	440	445
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile		
450	455	460
Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp		
465	470	475
Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu		
485	490	495
Val Gly Gly Val Gly Gln Asp Gly Val Ala Glu Leu Gly Val Arg Pro		
500	505	510
Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg		
515	520	525
Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys		
530	535	540
Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala		
545	550	560
Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala		
565	570	575
Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu		
580	585	590
Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys		
595	600	605
Arg Leu Arg Lys Arg		
610		

<210> 2173

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2173

Met Trp Gly Trp Gly Ser Leu Val Ser Ala Arg Gly Gly Trp Gly Val
 1 5 10 15

Phe	Ile	Tyr	Leu	Tyr	Met	Gly	Leu	Tyr	Ile	Val	Leu	Trp	Gly	Met	Gly
20							25							30	
Glu	Pro	Ala	Gly	Gly	Glu	Asn	Pro	Pro	Leu	Ser	Pro	His	Pro	Pro	Gly
	35						40							45	
Arg	Ala	Asn	Val	Lys	Leu	Leu	Ile	Phe	Val	Leu	Tyr	Ile	Phe	Tyr	Ile
	50					55							60		
Asn	Ile	Ser	Ile	Phe	Phe	Leu	Gln	Asn	Gln	Phe	Ile	Asn	Gly	Arg	Gly
65						70							80		
Val	Trp	Gly	Gly	His	Met	Glu	Leu	Pro	Leu	Trp	Gly	Gly	Pro	Leu	His
	85						90						95		
Tyr	Pro	Thr	Tyr	Arg	Pro	Phe	Pro	His	Pro	Pro	Pro	His	Ser	Pro	Pro
	100						105						110		
Pro	Gly	Cys	Asp	Cys	Cys	Lys	Met	Gly	Val						
	115						120								

<210>	2174														
<211>	613														
<212>	PRT														
<213>	Homo sapiens														
<220>															
<221>	SITE														
<222>	(507)														
<223>	Xaa equals any of the naturally occurring L-amino acids														
<400>	2174														
Met	Gly	Ala	Leu	Arg	Pro	Thr	Leu	Leu	Pro	Pro	Ser	Leu	Pro	Leu	Leu
1								10						15	
Leu	Leu	Leu	Met	Leu	Gly	Met	Gly	Cys	Trp	Ala	Arg	Glu	Val	Leu	Val
	20							25						30	
Pro	Glu	Gly	Pro	Leu	Tyr	Arg	Val	Ala	Gly	Thr	Ala	Val	Ser	Ile	Ser
	35							40						45	
Cys	Asn	Val	Thr	Gly	Tyr	Glu	Gly	Pro	Ala	Gln	Gln	Asn	Phe	Glu	Trp
	50						55						60		
Phe	Leu	Tyr	Arg	Pro	Glu	Ala	Pro	Asp	Thr	Ala	Leu	Gly	Ile	Val	Ser
	65						70						75		80
Thr	Lys	Asp	Thr	Gln	Phe	Ser	Tyr	Ala	Val	Phe	Lys	Ser	Arg	Val	Val
							85						90		95
Ala	Gly	Glu	Val	Gln	Val	Gln	Arg	Leu	Gln	Gly	Asp	Ala	Val	Val	Leu
	100						105						110		
Lys	Ile	Ala	Arg	Leu	Gln	Ala	Gln	Asp	Ala	Gly	Ile	Tyr	Glu	Cys	His
	115						120						125		
Thr	Pro	Ser	Thr	Asp	Thr	Arg	Tyr	Leu	Gly	Ser	Tyr	Ser	Gly	Lys	Val

130 135 140
Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro
145 150 155 160
Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val
165 170 175
His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr
180 185 190
Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu
195 200 205
Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser
210 215 220
Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala
225 230 235 240
Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val
245 250 255
Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala
260 265 270
Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu
275 280 285
Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln
290 295 300
Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu
305 310 315 320
Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly
325 330 335
Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala
340 345 350
Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly
355 360 365
Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val
370 375 380
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp
385 390 395 400
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly
405 410 415
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val
420 425 430
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala
435 440 445
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile

450 455 460
Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp
465 470 475 480
Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu
485 490 495
Val Gly Gly Val Gly Gln Asp Gly Val Ala Xaa Leu Gly Val Arg Pro
500 505 510
Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg
515 520 525
Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys
530 535 540
Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala
545 550 555 560
Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala
565 570 575
Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu
580 585 590
Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys
595 600 605
Arg Leu Arg Lys Arg
610

<210> 2175
<211> 60
<212> PRT
<213> Homo sapiens

<400> 2175
Met Ala Trp Ala Val Thr Leu Ile Leu Ser Leu Ser Arg Ala Val Arg
1 5 10 15
Thr Gln Glu Val Pro Met Ala Leu Gln Ala His Ser Gly Ile Gln Leu
20 25 30
Ala Ser Arg Val Gly Leu Pro Gly Pro Trp Pro Glu Cys Ser Thr Leu
35 40 45
Ser Ser Arg Cys His Leu Ser Met Asp Ser Lys Val
50 55 60

<210> 2176
<211> 396
<212> PRT
<213> Homo sapiens

<400> 2176

Met	Trp	Trp	Leu	Leu	Leu	Trp	Gly	Val	Leu	Gln	Ala	Cys	Pro	Thr	Arg
1						5				10				15	
Gly	Ser	Val	Leu	Leu	Ala	Gln	Glu	Leu	Pro	Gln	Gln	Leu	Thr	Ser	Pro
						20			25				30		
Gly	Tyr	Pro	Glu	Pro	Tyr	Gly	Lys	Gly	Gln	Glu	Ser	Ser	Thr	Asp	Ile
						35			40				45		
Lys	Ala	Pro	Glu	Gly	Phe	Ala	Val	Arg	Leu	Val	Phe	Gln	Asp	Phe	Asp
						50			55			60			
Leu	Glu	Pro	Ser	Gln	Asp	Cys	Ala	Gly	Asp	Ser	Val	Thr	Ile	Ser	Phe
						65			70			75			80
Val	Gly	Ser	Asp	Pro	Ser	Gln	Phe	Cys	Gly	Gln	Gln	Gly	Ser	Pro	Leu
						85			90				95		
Gly	Arg	Pro	Pro	Gly	Gln	Arg	Glu	Phe	Val	Ser	Ser	Gly	Arg	Ser	Leu
						100			105				110		
Arg	Leu	Thr	Phe	Arg	Thr	Gln	Pro	Ser	Ser	Glu	Asn	Lys	Thr	Ala	His
						115			120				125		
Leu	His	Lys	Gly	Phe	Leu	Ala	Leu	Tyr	Gln	Thr	Val	Ala	Val	Asn	Tyr
						130			135			140			
Ser	Gln	Pro	Ile	Ser	Glu	Ala	Ser	Arg	Gly	Ser	Glu	Ala	Ile	Asn	Ala
						145			150			155			160
Pro	Gly	Asp	Asn	Pro	Ala	Lys	Val	Gln	Asn	His	Cys	Gln	Glu	Pro	Tyr
						165			170				175		
Tyr	Gln	Ala	Ala	Ala	Ala	Gly	Ala	Leu	Thr	Cys	Ala	Thr	Pro	Gly	Thr
						180			185			190			
Trp	Lys	Asp	Arg	Gln	Asp	Gly	Glu	Glu	Val	Leu	Gln	Cys	Met	Pro	Val
						195			200			205			
Cys	Gly	Arg	Pro	Val	Thr	Pro	Ile	Ala	Gln	Asn	Gln	Thr	Thr	Leu	Gly
						210			215			220			
Ser	Ser	Arg	Ala	Lys	Leu	Gly	Asn	Phe	Pro	Trp	Gln	Ala	Phe	Thr	Ser
						225			230			235			240
Ile	His	Gly	Arg	Gly	Gly	Ala	Leu	Leu	Gly	Asp	Arg	Trp	Ile	Leu	
						245			250			255			
Thr	Ala	Ala	His	Thr	Ile	Tyr	Pro	Lys	Asp	Ser	Val	Ser	Leu	Arg	Lys
						260			265			270			
Asn	Gln	Ser	Val	Asn	Val	Phe	Leu	Gly	His	Thr	Ala	Ile	Asp	Glu	Met
						275			280			285			
Leu	Lys	Leu	Gly	Asn	His	Pro	Val	His	Arg	Val	Val	Val	His	Pro	Asp
						290			295			300			
Tyr	Arg	Gln	Asn	Glu	Ser	His	Asn	Phe	Ser	Gly	Asp	Ile	Ala	Leu	Leu
						305			310			315			320

Glu	Leu	Gln	His	Ser	Ile	Pro	Leu	Gly	Pro	Asn	Val	Leu	Pro	Val	Cys
325															335
Leu	Pro	Asp	Asn	Glu	Thr	Leu	Tyr	Arg	Ser	Gly	Leu	Leu	Gly	Tyr	Val
340															350
Ser	Gly	Phe	Gly	Met	Glu	Met	Gly	Trp	Leu	Thr	Thr	Glu	Leu	Lys	Tyr
355															365
Ser	Arg	Leu	Pro	Val	Ala	Pro	Arg	Glu	Ala	Cys	Asn	Ala	Trp	Leu	Gln
370															380
Lys	Arg	Gln	Arg	Pro	Glu	Lys	Lys	Lys	Lys	Lys					
385															395

<210> 2177

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2177

Gly	Thr	Arg	Thr	Glu	Arg	Asp	Glu	Leu	Leu	Lys	Asp	Leu	Gln	Gln	Ser
1				5						10					15

Ile	Ala	Arg	Glu	Pro	Ser	Ala	Pro	Ser	Ile	Pro	Thr	Pro	Ala	Tyr	Gln
									20		25				30

Ser	Leu	Pro	Ala	Gly	Gly	His	Ala	Pro	Thr	Pro	Pro	Thr	Pro	Ala	Pro
									35		40				45

Arg	Thr	Met	Pro	Pro	Thr	Lys	Pro	Gln	Pro	Pro	Ala	Arg	Pro	Pro	Pro
									50		55				60

Pro	Val	Leu	Pro	Ala	Asn	Arg	Ala	Pro	Ser	Ala	Thr	Ala	Pro	Ser	Pro
									65		70				80

Val	Gly	Ala	Gly	Thr	Ala	Ala	Pro	Ala	Pro	Ser	Gln	Thr	Pro	Gly	Ser
									85		90				95

Ala	Pro	Pro	Pro	Gln	Ala	Gln	Gly	Pro	Pro	Tyr	Pro	Thr	Tyr	Pro	Gly
									100		105				110

Tyr	Pro	Gly	Tyr	Cys	Gln	Met	Pro	Met	Pro	Met	Gly	Tyr	Asn	Pro	Tyr
									115		120				125

Ala	Tyr	Gly	Gln	Tyr	Asn	Met	Pro	Tyr	Pro	Pro	Val	Tyr	His	Gln	Ser
									130		135				140

Pro	Gly	Gln	Ala	Pro	Tyr	Pro	Gly	Pro	Gln	Gln	Pro	Ser	Tyr	Pro	Phe
									145		150				160

Pro	Gln	Pro	Pro	Gln	Gln	Ser	Tyr	Tyr	Pro	Gln	Gln				
									165		170				

<210> 2178

<211> 142

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2178
Met His Gln Leu Leu Gln Leu Gln Arg Gln Glu Pro Cys Arg Leu Leu
1 5 10 15

Ser Pro Ser Pro Gln Pro Gly Leu His His Leu Cys Phe Gln Gln Ile
20 25 30

Glu Leu Leu Leu Leu Leu His Leu Gln Trp Gly Leu Gly Leu Leu
35 40 45

Arg Gln Leu His His Lys Arg Leu Ala Gln Leu Leu Leu His Arg Arg
50 55 60

Arg Asp His Pro Ile Pro Pro Ile Gln Asp Ile Leu Gly Ile Ala Lys
65 70 75 80

Cys Pro Cys Pro Trp Ala Ile Ile Leu Met Arg Met Ala Ser Ile Ile
85 90 95

Cys His Ile His Gln Cys Ile Thr Arg Val Leu Asp Arg Leu Xaa Thr
100 105 110

Arg Asp Pro Ser Ser Leu His Thr Pro Ser Leu Ser Pro His Ser Ser
115 120 125

Leu Thr Ile His Ser Ser Asn Met Ser Ala Gln Gln Leu Ser
130 135 140

<210> 2179
<211> 868
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (309)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (550)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2179
Met Ala Thr Phe Ile Ser Val Gln Leu Lys Lys Thr Ser Glu Val Asp

1	5	10	15												
Leu	Ala	Lys	Pro	Leu	Val	Lys	Phe	Ile	Gln	Gln	Thr	Tyr	Pro	Ser	Gly
				20				25				30			
Gly	Glu	Glu	Gln	Ala	Gln	Tyr	Cys	Arg	Ala	Ala	Glu	Glu	Leu	Ser	Lys
				35			40				45				
Leu	Arg	Arg	Ala	Ala	Val	Gly	Arg	Pro	Leu	Asp	Lys	His	Glu	Gly	Ala
				50			55				60				
Leu	Glu	Thr	Leu	Leu	Arg	Tyr	Tyr	Asp	Gln	Ile	Cys	Ser	Ile	Glu	Pro
				65			70			75			80		
Lys	Phe	Pro	Phe	Ser	Glu	Asn	Gln	Ile	Cys	Leu	Thr	Phe	Thr	Trp	Lys
				85			90				95				
Asp	Ala	Phe	Asp	Lys	Gly	Ser	Leu	Phe	Gly	Gly	Ser	Val	Lys	Leu	Ala
				100			105				110				
Leu	Ala	Ser	Leu	Gly	Tyr	Glu	Lys	Ser	Cys	Val	Leu	Phe	Asn	Cys	Ala
				115			120				125				
Ala	Leu	Ala	Ser	Gln	Ile	Ala	Ala	Glu	Gln	Asn	Leu	Asp	Asn	Asp	Glu
				130			135				140				
Gly	Leu	Lys	Ile	Ala	Ala	Lys	His	Tyr	Gln	Phe	Ala	Ser	Gly	Ala	Phe
				145			150			155			160		
Leu	His	Ile	Lys	Glu	Thr	Val	Leu	Ser	Ala	Leu	Ser	Arg	Glu	Pro	Thr
				165			170				175				
Val	Asp	Ile	Ser	Pro	Asp	Thr	Val	Gly	Thr	Leu	Ser	Leu	Ile	Met	Leu
				180			185				190				
Ala	Xaa	Ala	Gln	Glu	Val	Phe	Phe	Leu	Lys	Ala	Thr	Arg	Asp	Lys	Met
				195			200				205				
Lys	Asp	Ala	Ile	Ile	Ala	Lys	Leu	Ala	Asn	Gln	Ala	Ala	Asp	Tyr	Phe
				210			215				220				
Gly	Asp	Ala	Phe	Lys	Gln	Cys	Gln	Tyr	Lys	Asp	Thr	Leu	Pro	Lys	Glu
				225			230			235			240		
Val	Phe	Pro	Val	Leu	Ala	Ala	Lys	His	Cys	Ile	Met	Gln	Ala	Asn	Ala
				245			250				255				
Glu	Tyr	His	Gln	Ser	Ile	Leu	Ala	Lys	Gln	Gln	Lys	Lys	Phe	Gly	Glu
				260			265				270				
Glu	Ile	Ala	Arg	Leu	Gln	His	Ala	Ala	Glu	Leu	Ile	Lys	Thr	Val	Ala
				275			280				285				
Ser	Arg	Tyr	Asp	Glu	Tyr	Val	Asn	Val	Lys	Asp	Phe	Ser	Asp	Lys	Ile
				290			295				300				
Asn	Arg	Ala	Leu	Xaa	Ala	Ala	Lys	Lys	Asp	Asn	Asp	Phe	Ile	Tyr	His
				305			310			315			320		
Asp	Arg	Val	Pro	Asp	Leu	Lys	Asp	Leu	Asp	Pro	Ile	Gly	Lys	Ala	Thr

325	330	335
Leu Val Lys Ser Thr Pro Val Asn Val Pro Ile Ser Gln Lys Phe Thr		
340	345	350
Asp Leu Phe Glu Lys Met Val Pro Val Ser Val Gln Gln Ser Leu Ala		
355	360	365
Ala Tyr Asn Gln Arg Lys Ala Asp Leu Val Asn Arg Ser Ile Ala Gln		
370	375	380
Met Arg Glu Ala Thr Thr Leu Ala Asn Gly Val Leu Ala Ser Leu Asn		
385	390	395
Leu Pro Ala Ala Ile Glu Asp Val Ser Gly Asp Thr Val Pro Gln Ser		
405	410	415
Ile Leu Thr Lys Ser Arg Ser Val Ile Glu Gln Gly Gly Ile Gln Thr		
420	425	430
Val Asp Gln Leu Ile Lys Glu Leu Pro Glu Leu Leu Gln Arg Asn Arg		
435	440	445
Glu Ile Leu Asp Glu Ser Leu Arg Leu Leu Asp Glu Glu Glu Ala Thr		
450	455	460
Asp Asn Asp Leu Arg Ala Lys Phe Lys Glu Arg Trp Gln Arg Thr Pro		
465	470	475
Ser Asn Glu Leu Tyr Lys Pro Leu Arg Ala Glu Gly Thr Asn Phe Arg		
485	490	495
Thr Val Leu Asp Lys Ala Val Gln Ala Asp Gly Gln Val Lys Glu Cys		
500	505	510
Tyr Gln Ser His Arg Asp Thr Ile Val Leu Leu Cys Lys Pro Glu Pro		
515	520	525
Glu Leu Asn Ala Ala Ile Pro Ser Ala Asn Pro Ala Lys Thr Met Gln		
530	535	540
Gly Ser Glu Val Val Xaa Val Leu Lys Ser Leu Leu Ser Asn Leu Asp		
545	550	555
Glu Val Lys Lys Glu Arg Glu Gly Leu Glu Asn Asp Leu Lys Ser Val		
565	570	575
Asn Phe Asp Met Thr Ser Lys Phe Leu Thr Ala Leu Ala Gln Asp Gly		
580	585	590
Val Ile Asn Glu Glu Ala Leu Ser Val Thr Glu Leu Asp Arg Val Tyr		
595	600	605
Gly Gly Leu Thr Thr Lys Val Gln Glu Ser Leu Lys Lys Gln Glu Gly		
610	615	620
Leu Leu Lys Asn Ile Gln Val Ser His Gln Glu Phe Ser Lys Met Lys		
625	630	635
Gln Ser Asn Asn Glu Ala Asn Leu Arg Glu Glu Val Leu Lys Asn Leu		

645	650	655
Ala Thr Ala Tyr Asp Asn Phe Val Glu Leu Val Ala Asn Leu Lys Glu		
660	665	670
Gly Thr Lys Phe Tyr Asn Glu Leu Thr Glu Ile Leu Val Arg Phe Gln		
675	680	685
Asn Lys Cys Ser Asp Ile Val Phe Ala Arg Lys Thr Glu Arg Asp Glu		
690	695	700
Leu Leu Lys Asp Leu Gln Gln Ser Ile Ala Arg Glu Pro Ser Ala Pro		
705	710	715
720		
Ser Ile Pro Thr Pro Ala Tyr Gln Ser Leu Pro Ala Gly Gly His Ala		
725	730	735
Pro Thr Pro Pro Thr Pro Ala Pro Arg Thr Met Pro Pro Thr Lys Pro		
740	745	750
Gln Pro Pro Ala Arg Pro Pro Pro Val Leu Pro Ala Asn Arg Ala		
755	760	765
Pro Ser Ala Thr Ala Pro Ser Pro Val Gly Ala Gly Thr Ala Ala Pro		
770	775	780
Ala Pro Ser Gln Thr Pro Gly Ser Ala Pro Pro Pro Gln Ala Gln Gly		
785	790	795
800		
Pro Pro Tyr Pro Thr Tyr Pro Gly Tyr Pro Gly Tyr Cys Gln Met Pro		
805	810	815
Met Pro Met Gly Tyr Asn Pro Tyr Ala Tyr Gly Gln Tyr Asn Met Pro		
820	825	830
Tyr Pro Pro Val Tyr His Gln Ser Pro Gly Gln Ala Pro Tyr Pro Gly		
835	840	845
Pro Gln Gln Pro Ser Tyr Pro Phe Pro Gln Pro Pro Gln Gln Ser Tyr		
850	855	860
Tyr Pro Gln Gln		
865		

<210> 2180
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 2180		
Met Lys Pro Ala Thr Ala Ser Ala Leu Leu Leu Leu Leu Gly Leu		
1	5	10
		15
Ala Trp Thr Gln Gly Ser His Gly Trp Gly Ala Asp Ala Ser Ser Leu		
20	25	30
Gln Lys Arg Ala Gly Arg Ala Asp Gln Pro Gly Ala Gly Trp Gln Glu		
35	40	45

Val	Ala	Ala	Val	Thr	Ser	Lys	Asn	Tyr	Asn	Tyr	Asn	Gln	His	Ala	Tyr
50						55					60				
Pro	Thr	Ala	Tyr	Gly	Gly	Lys	Tyr	Ser	Val	Lys	Thr	Pro	Ala	Lys	Gly
65				70					75			80			
Gly	Val	Ser	Pro	Ser	Ser	Ser	Ala	Ser	Arg	Val	Gln	Pro	Gly	Leu	Leu
							85			90				95	
Gln	Trp	Val	Lys	Phe	Trp										
					100										

<210>	2181														
<211>	140														
<212>	PRT														
<213>	Homo sapiens														
<220>															
<221>	SITE														
<222>	(36)														
<223>	Xaa equals any of the naturally occurring L-amino acids														
<400>	2181														
Met	Phe	Leu	Phe	Gly	Gly	Phe	Leu	Met	Thr	Leu	Phe	Gly	Leu	Phe	Val
1				5				10						15	
Ser	Leu	Val	Phe	Leu	Gly	Gln	Ala	Phe	Thr	Ile	Met	Leu	Val	Tyr	Val
				20				25						30	
Trp	Ser	Arg	Xaa	Asn	Pro	Tyr	Val	Arg	Met	Asn	Phe	Phe	Gly	Leu	Leu
					35			40						45	
Asn	Phe	Gln	Ala	Pro	Phe	Leu	Pro	Trp	Val	Leu	Met	Gly	Phe	Ser	Leu
				50			55				60				
Leu	Leu	Gly	Asn	Ser	Ile	Ile	Val	Asp	Leu	Leu	Gly	Ile	Ala	Val	Gly
					65		70			75				80	
His	Ile	Tyr	Phe	Phe	Leu	Glu	Asp	Val	Phe	Pro	Asn	Gln	Pro	Gly	Gly
					85			90				95			
Ile	Arg	Ile	Leu	Lys	Thr	Pro	Ser	Ile	Leu	Lys	Ala	Ile	Phe	Asp	Thr
					100			105				110			
Pro	Asp	Glu	Asp	Pro	Asn	Tyr	Asn	Pro	Leu	Pro	Glu	Glu	Arg	Pro	Gly
				115				120			125				
Gly	Phe	Ala	Trp	Gly	Glu	Gly	Gln	Arg	Leu	Gly	Gly				
					130		135			140					

<210>	2182														
<211>	156														
<212>	PRT														
<213>	Homo sapiens														

<400> 2182

Met Leu Glu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp Phe Val Phe
1 5 10 15

Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val
20 25 30

Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val
35 40 45

Trp Ser Arg Arg Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu
50 55 60

Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu
65 70 75 80

Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly
85 90 95

His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly
100 105 110

Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr
115 120 125

Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly
130 135 140

Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
145 150 155

<210> 2183

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2183

Met Ala Tyr Gln Ser Leu Arg Leu Glu Tyr Leu Gln Ile Pro Pro Val
1 5 10 15

Ser Arg Ala Tyr Thr Thr Ala Cys Val Leu Thr Thr Ala Ala Val Gln
20 25 30

Leu Glu Leu Ile Thr Pro Phe Gln Leu Tyr Phe Asn Pro Glu Leu Ile
35 40 45

Phe Lys His Phe Gln Ile Trp Arg Leu Ile Thr Asn Phe Leu Phe Phe
50 55 60

Gly Pro Val Gly Phe Asn Phe Leu Phe Asn Met Ile Phe Leu Tyr Arg
65 70 75 80

Tyr Cys Arg Met Leu Glu Glu Gly Ser Phe Arg Gly Arg Thr Ala Asp
85 90 95

Phe Val Phe Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly
100 105 110

Leu	Phe	Val	Ser	Leu	Val	Phe	Leu	Gly	Gln	Ala	Phe	Thr	Ile	Met	Leu
115							120							125	
Val	Tyr	Val	Trp	Ser	Arg	Arg	Asn	Pro	Tyr	Val	Arg	Met	Asn	Phe	Phe
130							135							140	
Gly	Leu	Leu	Asn	Phe	Gln	Ala	Pro	Phe	Leu	Pro	Trp	Val	Leu	Met	Gly
145							150							160	
Phe	Ser	Leu	Leu	Gly	Asn	Ser	Ile	Ile	Val	Asp	Leu	Leu	Gly	Ile	
							165							175	
Ala	Val	Gly	His	Ile	Tyr	Phe	Phe	Leu	Glu	Asp	Val	Phe	Pro	Asn	Gln
							180							190	
Pro	Gly	Gly	Ile	Arg	Ile	Leu	Lys	Thr	Pro	Ser	Ile	Leu	Lys	Ala	Ile
							195							205	
Phe	Asp	Thr	Pro	Asp	Glu	Asp	Pro	Asn	Tyr	Asn	Pro	Leu	Pro	Glu	Glu
							210							220	
Arg	Pro	Gly	Gly	Phe	Ala	Trp	Gly	Glu	Gly	Gln	Arg	Leu	Gly	Gly	
225							230							235	

<210> 2184

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2184

Met	Thr	Leu	Phe	Gly	Leu	Phe	Val	Ser	Leu	Val	Phe	Leu	Gly	Gln	Ala
1							5							10	

Phe	Thr	Ile	Met	Leu	Val	Tyr	Val	Trp	Ser	Arg	Arg	Asn	Pro	Tyr	Val
							20							25	

Arg	Met	Asn	Phe	Phe	Gly	Leu	Leu	Asn	Phe	Gln	Ala	Pro	Phe	Leu	Pro
														35	

Trp	Val	Leu	Met	Gly	Phe	Ser	Leu	Leu	Gly	Asn	Ser	Ile	Ile	Val	
														50	

Asp	Leu	Leu	Gly	Ile	Ala	Val	Gly	His	Ile	Tyr	Phe	Phe	Leu	Glu	Asp
														65	

Val	Phe	Pro	Asn	Gln	Pro	Gly	Gly	Ile	Arg	Ile	Leu	Lys	Thr	Pro	Ser
														85	

Ile	Leu	Lys	Ala	Ile	Phe	Asp	Thr	Pro	Asp	Glu	Asp	Pro	Asn	Tyr	Asn
														100	

Pro	Leu	Pro	Glu	Glu	Arg	Pro	Gly	Gly	Phe	Ala	Trp	Gly	Glu	Gly	Gln
														115	

Arg	Leu	Gly	Gly												130
-----	-----	-----	-----	--	--	--	--	--	--	--	--	--	--	--	-----

<210> 2185

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2185

Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly
1 5 10 15

Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr
20 25 30

Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu
35 40 45

Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu
50 55 60

Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile
65 70 75 80

Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro
85 90 95

Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn
100 105 110

Phe Gln His Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe
115 120 125

Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe
130 135 140

Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly
145 150 155 160

Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp
165 170 175

Pro Asp Gln Asp Pro Pro Pro Asn Asn Asp Ser Phe Gln Val Leu Gln
180 185 190

Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser
195 200 205

Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys
210 215 220

Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala
225 230 235 240

Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp
245 250 255

Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu
260 265 270

Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly
275 280 285

Ser Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg
290 295 300

Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly
305 310 315 320

Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu
325 330 335

Asp Asn Ala

<210> 2186

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2186

Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly
1 5 10 15

Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr
20 25 30

Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu
35 40 45

Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu
50 55 60

Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile
65 70 75 80

Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro
85 90 95

Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn
100 105 110

Phe Gln His Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe
115 120 125

Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe
130 135 140

Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly
145 150 155 160

Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp
165 170 175

Pro Asp Gln Asp Pro Pro Pro Asn Asn Asp Ser Phe Gln Val Leu Gln
180 185 190

Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser
195 200 205

Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys
210 215 220

Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala
225 230 235 240

Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp
245 250 255

Asn Gln Glu Pro Leu Arg Glu Glu Asp Ser Asp Phe Ile Leu Thr Glu
260 265 270

Gly Asp Leu Thr Leu Thr Tyr Gly Asp Ser Thr Val Thr Ala Asn Gly
275 280 285

Ser Ser Ser Ser His Thr Ala Ser Thr Ser Leu Glu Gly Ser Arg Arg
290 295 300

Thr Lys Ser Ser Ser Glu Glu Val Leu Glu Arg Asp Leu Gly Met Gly
305 310 315 320

Asp Gln Lys Val Ser Ser Arg Gly Thr Arg Leu Val Phe Pro Leu Glu
325 330 335

Asp Asn Ala

<210> 2187

<211> 509

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (198)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (199)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (246)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (294)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (301)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (303)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (493)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (498)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (499)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (505)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2187

Met	Glu	Glu	Leu	Ala	Thr	Glu	Lys	Glu	Ala	Glu	Glu	Ser	His	Arg	Gln
1															15

Asp Ser Val Xaa Leu Leu Thr Phe Ile Leu Leu Leu Thr Leu Thr Ile

			20					25					30		
--	--	--	----	--	--	--	--	----	--	--	--	--	----	--	--

Leu Thr Ile Trp Leu Phe Lys His Arg Arg Val Arg Phe Leu His Glu

				35				40				45			
--	--	--	--	----	--	--	--	----	--	--	--	----	--	--	--

Thr Gly Leu Ala Met Ile Tyr Gly Leu Ile Val Gly Val Ile Leu Arg

			50			55				60					
--	--	--	----	--	--	----	--	--	--	----	--	--	--	--	--

Tyr Gly Thr Pro Ala Thr Ser Gly Arg Asp Lys Ser Leu Ser Cys Thr

			65			70			75			80			
--	--	--	----	--	--	----	--	--	----	--	--	----	--	--	--

Gln Glu Asp Arg Ala Phe Ser Thr Leu Leu Val Asn Val Ser Gly Lys

			85				90				95				
--	--	--	----	--	--	--	----	--	--	--	----	--	--	--	--

Phe Phe Glu Tyr Thr Leu Lys Gly Glu Ile Ser Pro Gly Lys Ile Asn

			100				105			110					
--	--	--	-----	--	--	--	-----	--	--	-----	--	--	--	--	--

Ser Val Glu Gln Asn Asp Met Leu Arg Lys Val Thr Phe Asp Pro Glu
115 120 125

Val Phe Phe Asn Ile Leu Leu Pro Pro Ile Ile Phe His Ala Gly Tyr
130 135 140

Ser Leu Lys Lys Arg His Phe Phe Arg Asn Leu Gly Ser Ile Leu Ala
145 150 155 160

Tyr Ala Phe Leu Gly Thr Ala Xaa Ser Cys Phe Ile Ile Gly Asn Leu
165 170 175

Met Tyr Gly Val Val Lys Leu Met Lys Ile Met Gly Gln Leu Ser Asp
180 185 190

Lys Phe Tyr Tyr Thr Xaa Xaa Leu Phe Phe Gly Ala Ile Ile Ser Ala
195 200 205

Thr Asp Pro Val Thr Val Leu Ala Ile Phe Asn Glu Leu His Ala Asp
210 215 220

Val Asp Leu Tyr Ala Leu Leu Phe Gly Glu Ser Val Leu Asn Asp Ala
225 230 235 240

Val Ala Ile Xaa Leu Xaa Ser Ser Ile Val Ala Tyr Gln Pro Ala Gly
245 250 255

Leu Asn Thr His Ala Phe Asp Ala Ala Phe Phe Lys Ser Val Gly
260 265 270

Ile Phe Leu Gly Ile Phe Ser Gly Ser Phe Thr Met Gly Ala Val Thr
275 280 285

Gly Val Val Thr Ala Xaa Val Thr Lys Phe Thr Lys Xaa His Xaa Phe
290 295 300

Pro Leu Leu Glu Thr Ala Leu Phe Phe Leu Met Ser Trp Ser Thr Phe
305 310 315 320

Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly Val Val Ala Val Leu Phe
325 330 335

Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr Asn Asn Leu Ser Val Glu
340 345 350

Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu Val Leu His Phe Leu Ala
355 360 365

Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu Ala Leu Phe Thr Phe Gln
370 375 380

Lys His Val Phe Ser Pro Ile Phe Ile Ile Gly Ala Phe Val Ala Ile
385 390 395 400

Phe Leu Gly Arg Ala Ala His Ile Tyr Pro Leu Ser Phe Phe Leu Asn
405 410 415

Leu Gly Arg Arg His Lys Ile Gly Trp Asn Phe Gln His Met Met Met
420 425 430

Phe Ser Gly Leu Arg Gly Ala Met Ala Phe Ala Leu Ala Ile Arg Asp
435 440 445

Thr Ala Ser Tyr Ala Arg Gln Met Met Phe Thr Thr Thr Leu Leu Ile
450 455 460

Val Phe Phe Thr Val Trp Ile Ile Gly Gly Gly Thr Thr Pro Met Leu
465 470 475 480

Ser Trp Leu Asn Ile Arg Val Gly Val Asp Pro Asp Xaa Asp Pro Pro
485 490 495

Pro Xaa Xaa Asp Ser Phe Ala Phe Xaa Thr Glu Thr Ala
500 505

<210> 2188
<211> 146
<212> PRT
<213> Homo sapiens

<400> 2188
Met Thr Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu
1 5 10 15

Trp Ala Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser
20 25 30

Phe Ser Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp
35 40 45

Gln Glu His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu
50 55 60

Ala Glu Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His
65 70 75 80

Asp Tyr Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala
85 90 95

Ile Thr His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Met
100 105 110

Ser Glu Asp Glu Leu Ile Asn Ile Ile Asp Gly Val Leu Arg Asp Asp
115 120 125

Asp Lys Asn Asn Asp Gly Tyr Ile Asp Tyr Ala Glu Phe Ala Lys Ser
130 135 140

Leu Gln
145

<210> 2189
<211> 530
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (488)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (490)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (494)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (495)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (505)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2189
Met Glu Phe Gly Leu Thr Trp Val Phe Leu Val Ala Leu Leu Arg Gly
1 5 10 15
Val His Cys Gln Val Gln Leu Val Glu Ser Gly Gly Ala Val Val Gln
20 25 30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45
Ser Arg Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60
Gln Trp Leu Ala Leu Val Leu His Asp Gly Gly Gln Lys Tyr Asn Glu
65 70 75 80
Asp Val Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn
85 90 95
Lys Val Tyr Leu Gln Met Asp Ser Leu Arg Gly Glu Asp Thr Ala Thr
100 105 110
Tyr Tyr Cys Val Arg Gly Met Trp Glu Gln Leu Pro Ser Tyr Tyr Phe
115 120 125
Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Pro
130 135 140
Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln Pro Asp
145 150 155 160
Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu
165 170 175

Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val Thr Ala Arg
180 185 190
Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr Thr Thr Ser
195 200 205
Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly Lys Ser Val
210 215 220
Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp Val Thr Val
225 230 235 240
Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro
245 250 255
Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser Leu His Arg
260 265 270
Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn Leu Thr Cys
275 280 285
Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe Thr Trp Thr
290 295 300
Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Asp Arg Asp Leu
305 310 315 320
Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala Glu Pro
325 330 335
Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr Pro Glu Ser
340 345 350
Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn Thr Phe Arg
355 360 365
Pro Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala Leu Asn
370 375 380
Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro Lys Asp
385 390 395 400
Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg Glu Lys
405 410 415
Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr Thr Thr
420 425 430
Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp Lys Lys
435 440 445
Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu Ala
450 455 460
Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val
465 470 475 480
Asn Val Ser Val Val Met Ala Xaa Val Xaa Gly Pro Cys Xaa Xaa Ala
485 490 495

Ala Arg Leu Ser Pro Pro Leu Asn Xaa Leu His Ala Pro Pro Lys Lys
500 505 510
Lys
515 520 525
Lys Lys
530

<210> 2190

<211> 265

<212> PRT

<213> Homo sapiens

<400> 2190

Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp
1 5 10 15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr
20 25 30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala
35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile
65 70 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg
85 90 95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His
100 105 110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys
115 120 125

Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val
130 135 140

Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser
145 150 155 160

Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe
165 170 175

Ser Phe Cys Ala Gln His Arg Gln Gln Glu Ala Gly Leu Arg Pro
180 185 190

Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys
195 200 205

Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly
210 215 220

Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg

225 230 235 240

Phe Pro Arg Ala Leu Gly Thr Thr Arg Lys Pro Pro Arg Tyr Phe Ser
245 250 255

Gln Asn Arg Asn Ser Tyr Gly Thr Lys
260 265

<210> 2191

<211> 99

<212> PRT

<213> Homo sapiens

<400> 2191

Met Ala Val Trp Gly Asp Thr Glu Leu Ala Ala Gly Val Phe Cys Phe
1 5 10 15

Phe Leu Phe Phe Cys Phe Leu Tyr Leu Ser Gly Thr Trp Asn Ala Ser
20 25 30

Lys Thr Glu Leu Phe Thr Pro Leu Glu Arg Glu Leu Lys Pro Gly His
35 40 45

Pro Ser Gly Met Leu Ser Gly Ser His Pro His Gly Ala Gln Gln Ala
50 55 60

Lys Ser Thr Gly Leu Lys Leu Ser Leu Pro Ala Gln Gln Ser Glu Val
65 70 75 80

Asp Leu Gly Cys Ser Ser Leu Val Trp Gly Gly Ala Ser Ala Ile Thr
85 90 95

Glu Ala Leu

<210> 2192

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2192

Met Pro Thr Thr Thr Glu Gln Pro Val Thr Thr Thr Phe Pro Val Thr
1 5 10 15

Thr Gly Leu Lys Pro Thr Val Ala Leu Cys Gln Gln Lys Cys Arg Arg
20 25 30

Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser Ser Asp Phe Val Leu Ala
35 40 45

Gly Thr Val Ile Thr Thr Ile Thr Arg Asp Gly Ser Leu His Ala Thr
50 55 60

Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly Asn Leu Ala Ile Gln Gln
65 70 75 80

Ala	Gly	Lys	Asn	Met	Ser	Ala	Arg	Leu	Thr	Val	Val	Cys	Lys	Gln	Cys
				85					90					95	
Pro	Leu	Leu	Arg	Arg	Gly	Leu	Asn	Tyr	Ile	Ile	Met	Gly	Gln	Val	Gly
				100				105			110				
Glu	Asp	Gly	Arg	Gly	Lys	Ile	Met	Pro	Asn	Ser	Phe	Ile	Met	Met	Phe
				115			120				125				
Lys	Thr	Lys	Asn	Gln	Lys	Leu	Leu	Asp	Ala	Leu	Lys	Asn	Lys	Gln	Cys
				130			135			140					

<210> 2193

<211> 294

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2193

Met	Met	Val	Gln	Met	Ile	Ser	Asp	Ala	Asn	Thr	Ala	Gly	Asn	Gly	Phe
1				5					10					15	

Met	Ala	Met	Phe	Ser	Ala	Ala	Glu	Pro	Asn	Glu	Arg	Gly	Asp	Gln	Tyr
				20				25					30		

Cys	Gly	Gly	Leu	Leu	Asp	Arg	Pro	Ser	Gly	Ser	Phe	Lys	Thr	Pro	Asn
					35			40				45			

Trp	Pro	Asp	Arg	Asp	Tyr	Pro	Ala	Gly	Val	Thr	Cys	Val	Trp	His	Ile
					50			55			60				

Val	Ala	Pro	Lys	Asn	Gln	Leu	Ile	Glu	Leu	Lys	Phe	Glu	Lys	Phe	Asp
					65		70			75			80		

Val	Glu	Arg	Asp	Asn	Tyr	Cys	Arg	Tyr	Asp	Tyr	Val	Xaa	Val	Phe	Asn
					85			90				95			

Xaa	Gly	Glu	Val	Asn	Asp	Ala	Arg	Arg	Ile	Gly	Lys	Tyr	Cys	Gly	Asp
					100			105				110			

Ser	Pro	Pro	Ala	Pro	Ile	Val	Ser	Glu	Arg	Asn	Glu	Leu	Leu	Ile	Gln
					115			120			125				

Phe	Leu	Ser	Asp	Leu	Ser	Leu	Thr	Ala	Asp	Gly	Phe	Ile	Gly	His	Tyr
					130			135			140				

Ile Phe Arg Pro Lys Lys Leu Pro Thr Thr Thr Glu Gln Pro Val Thr
145 150 155 160

Thr Thr Phe Pro Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys
165 170 175

Gln Gln Lys Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser
180 185 190

Ser Asp Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp
195 200 205

Gly Ser Leu His Ala Thr Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly
210 215 220

Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu Thr
225 230 235 240

Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile
245 250 255

Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile Met Pro Asn
260 265 270

Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala
275 280 285

Leu Lys Asn Lys Gln Cys
290

<210> 2194

<211> 487

<212> PRT

<213> Homo sapiens

<400> 2194

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15

Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys
20 25 30

Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile
35 40 45

Ser Ser Gly Gly His Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys
50 55 60

Gly Leu Glu Trp Ile Gly Tyr Ile Ser Tyr Asn Gly Val Thr Tyr Tyr
65 70 75 80

Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Gln
85 90 95

Asn Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala
100 105 110

Val Tyr Tyr Cys Ala Lys Asp His Arg Ala Thr Arg Asp Gly Tyr Gln

115 120 125
Leu Glu Tyr Arg Gly Phe Asp Tyr Trp Gly Gln Gly Ile Leu Val Thr
130 135 140
Val Ser Ser Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu
145 150 155 160
Asp Ser Thr Pro Gln Asp Gly Asn Val Val Val Ala Cys Leu Val Gln
165 170 175
Gly Phe Phe Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly
180 185 190
Gln Asn Val Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly
195 200 205
Asp Leu Tyr Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys
210 215 220
Pro Asp Gly Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro
225 230 235 240
Ser Gln Asp Val Thr Val Pro Cys Pro Val Pro Pro Pro Pro Cys
245 250 255
Cys His Pro Arg Leu Ser Leu His Arg Pro Ala Leu Glu Asp Leu Leu
260 265 270
Leu Gly Ser Glu Ala Asn Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp
275 280 285
Ala Ser Gly Ala Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala
290 295 300
Val Gln Gly Pro Pro Glu Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser
305 310 315 320
Ser Val Leu Pro Gly Cys Ala Gln Pro Trp Asn His Gly Glu Thr Phe
325 330 335
Thr Cys Thr Ala Ala His Pro Glu Leu Lys Thr Pro Leu Thr Ala Asn
340 345 350
Ile Thr Lys Ser Gly Asn Thr Phe Arg Pro Glu Val His Leu Leu Pro
355 360 365
Pro Pro Ser Glu Glu Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys
370 375 380
Leu Ala Arg Gly Phe Ser Pro Lys Asp Val Leu Val Arg Trp Leu Gln
385 390 395 400
Gly Ser Gln Glu Leu Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg
405 410 415
Gln Glu Pro Ser Gln Gly Thr Thr Phe Ala Val Thr Ser Ile Leu
420 425 430
Arg Val Ala Ala Glu Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met
1455

435

440

445

Val Gly His Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp
450 455 460

Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala
465 470 475 480

Glu Val Asp Gly Thr Cys Tyr
485

<210> 2195

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2195

Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp
1 5 10 15

Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr
20 25 30

Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala
35 40 45

Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu
50 55 60

Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile
65 70 75 80

Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg
85 90 95

Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His
100 105 110

Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys
115 120 125

Gln Asp Gln Val Leu Asp Val Ser Gly Ala Asp Met Leu Ala Lys Ser
130 135 140

Ile Ala Asn Cys Gln Val Glu Leu Leu Glu Asn Cys Gly His Ser Val
145 150 155 160

Val Met Glu Arg Pro Arg Lys Thr Ala Lys Leu Ile Ile Asp Phe Leu
165 170 175

Ala Ser Val His Asn Thr Asp Asn Asn Lys Lys Leu Asp
180 185

<210> 2196

<211> 298

<212> PRT

<213> Homo sapiens

<400> 2196

Met	Lys	Thr	Leu	Gln	Ser	Thr	Leu	Leu	Leu	Leu	Leu	Val	Pro	Leu
1				5					10					15
Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp														
			20				25					30		
Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu														
			35			40					45			
Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile														
			50			55				60				
Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr														
			65			70			75			80		
Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu														
			85			90					95			
Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp														
			100			105				110				
Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe														
			115			120			125					
Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn														
			130			135			140					
Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp														
			145			150			155			160		
Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu														
			165			170			175					
Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe														
			180			185			190					
Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala														
			195			200			205					
Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala														
			210			215			220					
Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His														
			225			230			235			240		
Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys														
			245			250			255					
Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu														
			260			265			270					
Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys														
			275			280			285					
Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe														
			290			295								

<210> 2197
<211> 298
<212> PRT
<213> Homo sapiens

<400> 2197
Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu
1 5 10 15
Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
20 25 30
Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
35 40 45
Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
50 55 60
Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
65 70 75 80
Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu
85 90 95
Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
100 105 110
Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
115 120 125
Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn
130 135 140
Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp
145 150 155 160
Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu
165 170 175
Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe
180 185 190
Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala
195 200 205
Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala
210 215 220
Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His
225 230 235 240
Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys
245 250 255
Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu
260 265 270
Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys

275

280

285

Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe
 290 295

<210> 2198
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 2198
 Met Glu Cys Lys Lys Arg Ile Gln Leu Ile Met Leu Ala Ser Ile Val
 1 5 10 15

Arg Leu Pro Pro Thr Glu Gln Ser Gly Leu Leu Lys Thr Arg Phe His
 20 25 30

Asn Phe Cys Gln Arg Asn Leu Gln Ser Ser
 35 40

<210> 2199
 <211> 472
 <212> PRT
 <213> Homo sapiens

<400> 2199
 Met Ile Arg Thr Arg Arg Gly Trp Ser Ser Met Trp Pro Trp Ile Gly
 1 5 10 15

Val Gly Tyr Leu Ala Gly Cys Leu Val His Ala Leu Gly Glu Lys Gln
 20 25 30

Pro Glu Leu Gln Ile Ser Glu Arg Asp Val Leu Cys Val Gln Ile Ala
 35 40 45

Gly Leu Cys His Asp Leu Gly His Gly Pro Phe Ser His Met Phe Asp
 50 55 60

Gly Arg Phe Ile Pro Leu Ala Arg Pro Glu Val Lys Trp Thr His Glu
 65 70 75 80

Gln Gly Ser Val Met Met Phe Glu His Leu Ile Asn Ser Asn Gly Ile
 85 90 95

Lys Pro Val Met Glu Gln Tyr Gly Leu Ile Pro Glu Glu Asp Ile Cys
 100 105 110

Phe Ile Lys Glu Gln Ile Val Gly Pro Leu Glu Ser Pro Val Glu Asp
 115 120 125

Ser Leu Trp Pro Tyr Lys Gly Arg Pro Glu Asn Lys Ser Phe Leu Tyr
 130 135 140

Glu Ile Val Ser Asn Lys Arg Asn Gly Ile Asp Val Asp Lys Trp Asp
 145 150 155 160

Tyr Phe Ala Arg Asp Cys His His Leu Gly Ile Gln Asn Asn Phe Asp
165 170 175
Tyr Lys Arg Phe Ile Lys Phe Ala Arg Val Cys Glu Val Asp Asn Glu
180 185 190
Leu Arg Ile Cys Ala Arg Asp Lys Glu Val Gly Asn Leu Tyr Asp Met
195 200 205
Phe His Thr Arg Asn Ser Leu His Arg Arg Ala Tyr Gln His Lys Val
210 215 220
Gly Asn Ile Ile Asp Thr Met Ile Thr Asp Ala Phe Leu Glu Ala Asp
225 230 235 240
Asp Tyr Ile Glu Ile Thr Gly Ala Gly Lys Lys Tyr Arg Ile Ser
245 250 255
Thr Ala Ile Asp Asp Met Glu Ala Tyr Thr Lys Leu Thr Asp Asn Ile
260 265 270
Phe Leu Glu Ile Leu Tyr Ser Thr Asp Pro Lys Leu Lys Asp Ala Arg
275 280 285
Glu Ile Leu Lys Gln Ile Glu Tyr Arg Asn Leu Phe Lys Tyr Val Gly
290 295 300
Glu Thr Gln Pro Thr Gly Gln Ile Lys Ile Lys Arg Glu Asp Tyr Glu
305 310 315 320
Ser Leu Pro Lys Glu Val Ala Ser Ala Lys Pro Lys Val Leu Leu Asp
325 330 335
Val Lys Leu Lys Ala Glu Asp Phe Ile Val Asp Val Ile Asn Met Asp
340 345 350
Tyr Gly Met Gln Glu Lys Asn Pro Ile Asp His Val Ser Phe Tyr Cys
355 360 365
Lys Thr Ala Pro Asn Arg Ala Ile Arg Ile Thr Lys Asn Gln Val Ser
370 375 380
Gln Leu Leu Pro Glu Lys Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys
385 390 395 400
Lys Lys Val Asp Arg Lys Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val
405 410 415
Gln Trp Cys Ala Asp Arg Asn Phe Thr Lys Pro Gln Asp Gly Asp Val
420 425 430
Ile Ala Pro Leu Ile Thr Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr
435 440 445
Ser Val Gln Asn Pro Thr Arg Leu Arg Glu Ala Ser Lys Ser Arg Val
450 455 460
Gln Leu Phe Lys Asp Asp Pro Met
465 470

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<210> 2200
<211> 626
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (353)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (354)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2200
Met Gln Arg Ala Asp Ser Glu Gln Pro Ser Lys Arg Pro Arg Cys Asp
 1           5           10           15

Asp Ser Pro Arg Thr Pro Ser Asn Thr Pro Ser Ala Glu Ala Asp Trp
 20          25           30

Ser Pro Gly Leu Glu Leu His Pro Asp Tyr Lys Thr Trp Gly Pro Glu
 35          40           45

Gln Val Cys Ser Phe Leu Arg Arg Gly Gly Phe Glu Glu Pro Val Leu
 50          55           60

Leu Lys Asn Ile Arg Glu Asn Glu Ile Thr Gly Ala Leu Leu Pro Cys
 65          70           75           80

Leu Asp Glu Ser Arg Phe Glu Asn Leu Gly Val Ser Ser Leu Gly Glu
 85          90           95

Arg Lys Lys Leu Leu Ser Tyr Ile Gln Arg Leu Val Gln Ile His Val
100         105          110

Asp Thr Met Lys Val Ile Asn Asp Pro Ile His Gly His Ile Glu Leu
115         120          125

His Pro Leu Leu Val Arg Ile Ile Asp Thr Pro Gln Phe Gln Arg Leu
130         135          140

Arg Tyr Ile Lys Gln Leu Gly Gly Tyr Tyr Val Phe Pro Gly Ala
145         150          155          160

Ser His Asn Arg Phe Glu His Ser Leu Gly Val Gly Tyr Leu Ala Gly
165         170          175

Cys Leu Val His Ala Leu Gly Glu Lys Gln Pro Glu Leu Gln Ile Ser
180         185          190

Glu Arg Asp Val Leu Cys Val Gln Ile Ala Gly Leu Cys His Asp Leu

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195 200 205
Gly His Gly Pro Phe Ser His Met Phe Asp Gly Arg Phe Ile Pro Leu
210 215 220
Ala Arg Pro Glu Val Lys Trp Thr His Glu Gln Gly Ser Val Met Met
225 230 235 240
Phe Glu His Leu Ile Asn Ser Asn Gly Ile Lys Pro Val Met Glu Gln
245 250 255
Tyr Gly Leu Ile Pro Glu Glu Asp Ile Cys Phe Ile Lys Glu Gln Ile
260 265 270
Val Gly Pro Leu Glu Ser Pro Val Glu Asp Ser Leu Trp Pro Tyr Lys
275 280 285
Gly Arg Pro Glu Asn Lys Ser Phe Leu Tyr Glu Ile Val Ser Asn Lys
290 295 300
Arg Asn Gly Ile Asp Val Asp Lys Trp Asp Tyr Phe Ala Arg Asp Cys
305 310 315 320
His His Leu Gly Ile Gln Asn Asn Phe Asp Tyr Lys Arg Phe Ile Lys
325 330 335
Phe Ala Arg Val Cys Glu Val Asp Asn Glu Leu Arg Ile Cys Ala Arg
340 345 350
Xaa Xaa Glu Val Gly Asn Leu Tyr Asp Met Xaa His Thr Arg Asn Ser
355 360 365
Leu His Arg Arg Ala Tyr Gln His Lys Val Gly Asn Ile Ile Asp Thr
370 375 380
Met Ile Thr Asp Ala Phe Leu Lys Ala Asp Asp Tyr Ile Glu Ile Thr
385 390 395 400
Gly Ala Gly Lys Lys Tyr Arg Ile Ser Thr Ala Ile Asp Asp Met
405 410 415
Glu Ala Tyr Thr Lys Leu Thr Asp Asn Ile Phe Leu Glu Ile Leu Tyr
420 425 430
Ser Thr Asp Pro Lys Leu Lys Asp Ala Arg Glu Ile Leu Lys Gln Ile
435 440 445
Glu Tyr Arg Asn Leu Phe Lys Tyr Val Gly Glu Thr Gln Pro Thr Gly
450 455 460
Gln Ile Lys Ile Lys Arg Glu Asp Tyr Glu Ser Leu Pro Lys Glu Val
465 470 475 480
Ala Ser Ala Lys Pro Lys Val Leu Leu Asp Val Lys Leu Lys Ala Glu
485 490 495
Asp Phe Ile Val Asp Val Ile Asn Met Asp Tyr Gly Met Gln Glu Lys
500 505 510
Asn Pro Ile Asp His Val Ser Phe Tyr Cys Lys Thr Ala Pro Asn Arg

515	520	525
Ala Ile Arg Ile Thr Lys Asn Gln Val Ser Gln Leu Leu Pro Glu Lys		
530	535	540
Phe Ala Glu Gln Leu Ile Arg Val Tyr Cys Lys Lys Val Asp Arg Lys		
545	550	555
Ser Leu Tyr Ala Ala Arg Gln Tyr Phe Val Gln Trp Cys Ala Asp Arg		
565	570	575
Asn Phe Thr Lys Pro Gln Asp Gly Asp Val Ile Ala Pro Leu Ile Thr		
580	585	590
Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr Ser Val Gln Asn Pro Thr		
595	600	605
Arg Leu Arg Glu Ala Ser Lys Ser Arg Val Gln Leu Phe Lys Asp Asp		
610	615	620
Pro Met		
625		

Pro Met
625

<210> 2201
<211> 245
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2201
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Xaa
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
130 135 140
Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145 150 155 160
Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
165 170 175
Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
180 185 190
Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205
Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
210 215 220
His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225 230 235 240
Ile Phe Pro Ser Ala
245

<210> 2202

<211> 32

<212> PRT

<213> Homo sapiens

<400> 2202

Met Gly Val Asn Lys Val Leu Phe Thr Phe Phe Phe Ser Ser Leu
1 5 10 15

Leu Asp Gly Val Gly Thr Ser His Ser Leu Ala Ser Phe Pro His Thr
20 25 30

<210> 2203

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2203

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225 230 235 240

Ile Phe Pro Ser Ala
245

<210> 2204

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2204

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95
Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
100 105 110
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
115 120 125
Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
130 135 140
Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145 150 155 160
Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
165 170 175
Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
180 185 190
Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205
Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
210 215 220
His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225 230 235 240
Ile Phe Pro Ser Ala
245

<210> 2205

<211> 245

<212> PRT

<213> Homo sapiens

<400> 2205

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln

100	105	110	
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly			
115	120	125	
Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr			
130	135	140	
Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr			
145	150	155	160
Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val			
165	170	175	
Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr			
180	185	190	
Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln			
195	200	205	
Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly			
210	215	220	
His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu			
225	230	235	240
Ile Phe Pro Ser Ala			
245			
<210> 2206			
<211> 245			
<212> PRT			
<213> Homo sapiens			
<400> 2206			
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser			
1	5	10	15
Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys			
20	25	30	
Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys			
35	40	45	
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln			
50	55	60	
Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly			
65	70	75	80
Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile			
85	90	95	
Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln			
100	105	110	
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly			
115	120	125	

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225 230 235 240

Ile Phe Pro Ser Ala
245

<210> 2207

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2207

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Xaa Lys
35 40 45

Xaa Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
50 55 60

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
65 70 75 80

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
85 90 95

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
100 105 110
Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
115 120 125
Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
130 135 140
Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
145 150 155 160
Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
165 170 175
Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
180 185 190
Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
195 200 205
His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
210 215 220
Ile Phe Pro Ser Ala
225

<210> 2208

<211> 207

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2208

Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu
1 5 10 15

Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
20 25 30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
35 40 45

<210> 2209
<211> 235
<212> PRT
<213> Homo sapiens

<400> 2209

Met	Asp	Met	Arg	Val	Pro	Ala	Gln	Leu	Leu	Gly	Leu	Leu	Leu	Trp	
1				5							10			15	
Leu	Arg	Gly	Ala	Arg	Cys	Asp	Met	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser
				20					25					30	
Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Thr	Ser
							35		40				45		
Gln	Ser	Ile	Gly	Lys	Phe	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln
						50		55			60				
Ala	Pro	Lys	Leu	Leu	Ile	Ser	Gly	Ala	Ser	Ile	Leu	Gln	Thr	Gly	Val
						65		70			75				80
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Ala	Thr	Tyr	Phe	Thr	Leu	Thr
						85				90				95	
Ile	Asn	Asp	Leu	His	Pro	Glu	Asp	Ser	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln
								100		105			110		
Asp	Tyr	Thr	Thr	Pro	Leu	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys

115	120	125
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu		
130	135	140
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe		
145	150	155
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln		
165	170	175
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser		
180	185	190
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu		
195	200	205
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser		
210	215	220
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys		
225	230	235

<210> 2210

<211> 234

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2210

Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu Ser			
1	5	10	15

Gly Ala Arg Cys Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser			
20	25	30	

Ala Ser Leu Gly Asp Ser Val Thr Ile Thr Cys Gln Ala Ser Gln Asp			
35	40	45	

Ile Ala Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro			
50	55	60	

Lys Leu Val Ile Phe Asp Gly Ser Ile Leu His Thr Gly Val Pro Ser			
65	70	75	80

Arg Phe Ser Gly Gly Ser Gly Thr His Phe Thr Phe Thr Ile Asn			
85	90	95	

Asn Leu Gln Pro Asp Asp Val Ala Thr Tyr Ser Cys Gln Gln Tyr Asn			
100	105	110	

Thr Phe Pro Leu Thr Phe Gly Xaa Gly Thr Lys Val Glu Ile Lys Arg			
115	120	125	

Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln
130						135								140	
Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr
145						150								155	160
Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser
														175	
Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr
						180		185						190	
Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys
						195		200						205	
His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro
						210		215						220	
Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys						
						225		230							

<210> 2211

<211> 206

<212> PRT

<213> Homo sapiens

<400> 2211

Met	Asp	Val	Gly	Pro	Ser	Ser	Leu	Pro	His	Leu	Gly	Leu	Lys	Leu	Leu
1									10					15	

Leu	Leu	Leu	Leu	Leu	Leu	Pro	Leu	Arg	Gly	Gln	Ala	Asn	Thr	Gly	Cys
														30	
								20		25					

Tyr	Gly	Ile	Pro	Gly	Met	Pro	Gly	Leu	Pro	Gly	Ala	Pro	Gly	Lys	Asp
														45	
								35		40					

Gly	Tyr	Asp	Gly	Leu	Pro	Gly	Pro	Lys	Gly	Glu	Pro	Gly	Ile	Pro	Ala
														60	
								50		55					

Ile	Pro	Gly	Ile	Arg	Gly	Pro	Lys	Gly	Arg	Tyr	Lys	Gln	Lys	Phe	Gln
														80	
								65		70					

Ser	Val	Phe	Thr	Val	Thr	Arg	Gln	Thr	His	Gln	Pro	Pro	Ala	Pro	Asn
														95	
								85		90					

Ser	Leu	Ile	Arg	Phe	Asn	Ala	Val	Leu	Thr	Asn	Pro	Gln	Gly	Asp	Tyr
														110	
								100		105					

Asp	Thr	Ser	Thr	Gly	Lys	Phe	Thr	Cys	Lys	Val	Pro	Gly	Leu	Tyr	Tyr
														125	
								115		120					

Phe	Val	Tyr	His	Ala	Ser	His	Thr	Ala	Asn	Leu	Cys	Val	Leu	Leu	Tyr
														140	
								130		135					

Arg	Ser	Gly	Val	Lys	Val	Val	Thr	Phe	Cys	Gly	His	Thr	Ser	Lys	Thr
														160	
								145		150				155	

Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly Glu

165	170	175
Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile Gln		
180	185	190
Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp		
195	200	205
<210> 2212		
<211> 208		
<212> PRT		
<213> Homo sapiens		
<400> 2212		
Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu		
1	5	10
		15
Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys		
20	25	30
Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp		
35	40	45
Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala		
50	55	60
Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Lys Gly Glu Pro Gly Leu		
65	70	75
		80
Pro Gly His Pro Gly Lys Asn Gly Pro Met Gly Pro Pro Gly Met Pro		
85	90	95
Gly Val Pro Gly Pro Met Gly Ile Pro Gly Glu Pro Gly Glu Gly		
100	105	110
Arg Tyr Lys Gln Lys Phe Gln Ser Val Phe Thr Val Thr Arg Gln Thr		
115	120	125
His Gln Pro Pro Ala Pro Asn Ser Leu Ile Arg Phe Asn Ala Val Leu		
130	135	140
Thr Asn Pro Gln Glu Ile Met Thr Arg Ala Leu Ala Ser Ser Pro Ala		
145	150	155
		160
Lys Ser Pro Ala Ser Thr Thr Leu Ser Thr Thr Arg Arg Ile Gln Pro		
165	170	175
Thr Cys Ala Cys Cys Cys Thr Ala Ala Ala Ser Lys Trp Ser Pro Ser		
180	185	190
Val Ala Thr Arg Pro Lys Pro Ile Arg Ser Thr Arg Ala Val Cys Cys		
195	200	205

<210> 2213

<211> 263

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2213

Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Pro
1 5 10 15

Leu Leu Pro Leu Leu Cys Pro Pro Thr Xaa Gln Gly Asp Cys Ser
20 25 30

Phe Pro Pro Glu Leu Pro Asn Ala Ile Gln Ser Val Gly Asp Gln Gln
35 40 45

Ser Phe Pro Glu Lys Phe Thr Val Thr Tyr Lys Cys Lys Glu Gly Phe
50 55 60

Val Lys Val Pro Gly Lys Ala Asp Ser Val Val Cys Leu Asn Asn Lys
65 70 75 80

Trp Ser Glu Val Ala Glu Phe Cys Asn Arg Ser Cys Asp Val Pro Thr
85 90 95

Arg Leu Gln Phe Ala Ser Leu Lys Lys Ser Phe Thr Lys Gln Asn Xaa
100 105 110

Phe Pro Val Gly Ser Val Val Glu Tyr Glu Cys Arg Pro Gly Tyr Gln
115 120 125

Arg Asp His Leu Leu Ser Gly Lys Leu Thr Cys Leu Leu Asn Phe Thr
130 135 140

Trp Ser Lys Pro Asp Glu Phe Cys Lys Arg Lys Ser Cys Pro Asn Pro
145 150 155 160

Gly Asp Leu Arg His Gly His Val Asn Ile Pro Thr Asp Ile Leu Tyr
165 170 175

Ala Ala Val Ile His Phe Ser Cys Asn Lys Gly Tyr Arg Leu Val Gly
180 185 190

Ala Ala Ser Ser Tyr Cys Ser Ile Val Asn Asp Asp Val Gly Trp Ser
195 200 205

Asp Pro Leu Pro Glu Cys Gln Glu Ile Phe Cys Pro Glu Pro Pro Lys
210 215 220

Ile Ser Asn Gly Val Ile Leu Asp Gln Gln Asn Thr Tyr Val Tyr Gln
225 230 235 240

Gln Ala Val Lys Tyr Glu Cys Ile Lys Gly Phe Thr Leu Ile Gly Glu
245 250 255

Asn Ser Asp Leu Leu Tyr Cys
260

<210> 2214
<211> 55
<212> PRT
<213> Homo sapiens

<400> 2214
Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Pro
1 5 10 15

Leu Leu Pro Leu Leu Leu Cys Pro Pro Thr Gly Arg Val Thr Ala Ala
20 25 30

Phe Pro Gln Ser Tyr Leu Met Pro Tyr Lys Val Trp Val Thr Asn Arg
35 40 45

Val Phe Leu Lys Asn Ser Gln
50 55

<210> 2215
<211> 350
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2215
Met Ala Xaa Xaa Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly
1 5 10 15

Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn
20 25 30

Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu
35 40 45

Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala
50 55 60

Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val
65 70 75 80

Lys	Gly	Val	Asn	Lys	Leu	Ala	Leu	Pro	Pro	Gly	Ser	Val	Ile	Ser	Tyr
				85				90					95		
Pro	Leu	Glu	Asn	Ala	Val	Pro	Phe	Ser	Leu	Asp	Ser	Val	Ala	Asn	Ser
				100			105					110			
Ile	His	Ser	Leu	Phe	Ser	Glu	Glu	Thr	Pro	Val	Val	Leu	Gln	Leu	Ala
				115			120					125			
Pro	Ser	Glu	Glu	Arg	Val	Tyr	Met	Val	Gly	Lys	Ala	Asn	Ser	Val	Phe
				130			135					140			
Glu	Asp	Leu	Ser	Val	Thr	Leu	Arg	Gln	Leu	Arg	Asn	Arg	Leu	Phe	Gln
				145			150				155		160		
Glu	Asn	Ser	Val	Leu	Ser	Ser	Leu	Pro	Leu	Asn	Ser	Leu	Ser	Arg	Asn
				165			170					175			
Asn	Glu	Val	Asp	Leu	Leu	Phe	Leu	Ser	Glu	Leu	Gln	Val	Leu	His	Asp
				180			185					190			
Ile	Ser	Ser	Leu	Leu	Ser	Arg	His	Lys	His	Leu	Ala	Lys	Asp	His	Ser
				195			200					205			
Pro	Asp	Leu	Tyr	Ser	Leu	Glu	Leu	Ala	Gly	Leu	Asp	Glu	Ile	Gly	Lys
				210			215					220			
Arg	Tyr	Gly	Glu	Asp	Ser	Glu	Gln	Phe	Arg	Asp	Ala	Ser	Lys	Ile	Leu
				225			230				235		240		
Val	Asp	Ala	Leu	Gln	Lys	Phe	Ala	Asp	Asp	Met	Tyr	Ser	Leu	Tyr	Gly
				245			250					255			
Gly	Asn	Ala	Val	Val	Glu	Leu	Val	Thr	Val	Lys	Ser	Phe	Asp	Thr	Ser
				260			265					270			
Leu	Ile	Arg	Lys	Thr	Arg	Thr	Ile	Leu	Glu	Ala	Lys	Gln	Ala	Lys	Asn
				275			280					285			
Pro	Ala	Ser	Pro	Tyr	Asn	Leu	Ala	Tyr	Lys	Tyr	Asn	Phe	Glu	Tyr	Ser
				290			295					300			
Val	Val	Phe	Asn	Met	Val	Leu	Trp	Ile	Met	Ile	Ala	Leu	Ala	Leu	Ala
				305			310				315		320		
Val	Ile	Ile	Thr	Ser	Tyr	Asn	Ile	Trp	Asn	Met	Asp	Pro	Gly	Tyr	Asp
				325			330					335			
Ser	Ile	Ile	Tyr	Arg	Met	Thr	Asn	Gln	Lys	Ile	Arg	Met	Asp		
				340			345					350			

<210> 2216

<211> 350

<212> PRT

<213> Homo sapiens

<400> 2216

Met Ala Val Phe Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly

1	5	10	15													
Asn	Glu	Phe	Ser	Ile	Leu	Lys	Ser	Pro	Gly	Ser	Val	Val	Phe	Arg	Asn	
				20			25						30			
Gly	Asn	Trp	Pro	Ile	Pro	Gly	Glu	Arg	Ile	Pro	Asp	Val	Ala	Ala	Leu	
				35			40					45				
Ser	Met	Gly	Phe	Ser	Val	Lys	Glu	Asp	Leu	Ser	Trp	Pro	Gly	Leu	Ala	
					50		55				60					
val	Gly	Asn	Leu	Phe	His	Arg	Pro	Arg	Ala	Thr	Val	Met	Val	Met	Val	
					65		70			75		80				
Lys	Gly	Val	Asn	Lys	Leu	Ala	Leu	Pro	Pro	Gly	Ser	Val	Ile	Ser	Tyr	
					85			90				95				
Pro	Leu	Glu	Asn	Ala	Val	Pro	Phe	Ser	Leu	Asp	Ser	Val	Ala	Asn	Ser	
					100			105				110				
Ile	His	Ser	Leu	Phe	Ser	Glu	Glu	Thr	Pro	Val	Val	Leu	Gln	Leu	Ala	
					115			120				125				
Pro	Ser	Glu	Glu	Arg	Val	Tyr	Met	Val	Gly	Lys	Ala	Asn	Ser	Val	Phe	
					130		135			140						
Glu	Asp	Leu	Ser	Val	Thr	Leu	Arg	Gln	Leu	Arg	Asn	Arg	Leu	Phe	Gln	
					145		150			155		160				
Glu	Asn	Ser	Val	Leu	Ser	Ser	Leu	Pro	Leu	Asn	Ser	Leu	Ser	Arg	Asn	
					165			170				175				
Asn	Glu	Val	Asp	Leu	Leu	Phe	Leu	Ser	Glu	Leu	Gln	Val	Leu	His	Asp	
					180			185				190				
Ile	Ser	Ser	Leu	Leu	Ser	Arg	His	Lys	His	Leu	Ala	Lys	Asp	His	Ser	
					195			200				205				
Pro	Asp	Leu	Tyr	Ser	Leu	Glu	Leu	Ala	Gly	Leu	Asp	Glu	Ile	Gly	Lys	
					210		215				220					
Arg	Tyr	Gly	Glu	Asp	Ser	Glu	Gln	Phe	Arg	Asp	Ala	Ser	Lys	Ile	Leu	
					225		230			235		240				
Val	Asp	Ala	Leu	Gln	Lys	Phe	Ala	Asp	Asp	Met	Tyr	Ser	Leu	Tyr	Gly	
					245			250				255				
Gly	Asn	Ala	Val	Val	Glu	Leu	Val	Thr	Val	Lys	Ser	Phe	Asp	Thr	Ser	
					260			265				270				
Leu	Ile	Arg	Lys	Thr	Arg	Thr	Ile	Leu	Glu	Ala	Lys	Gln	Ala	Lys	Asn	
					275			280				285				
Pro	Ala	Ser	Pro	Tyr	Asn	Leu	Ala	Tyr	Lys	Tyr	Asn	Phe	Tyr	Ser		
					290		295				300					
Val	Val	Phe	Asn	Met	Val	Leu	Trp	Ile	Met	Ile	Ala	Leu	Ala			
					305		310			315		320				
Val	Ile	Ile	Thr	Ser	Tyr	Asn	Ile	Trp	Asn	Met	Asp	Pro	Gly	Tyr	Asp	

325

330

335

Ser Ile Ile Tyr Arg Met Thr Asn Gln Lys Ile Arg Met Asp
 340 345 350

<210> 2217
 <211> 167
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2217
 Met Cys Ser Leu Phe His Ala Phe Ile Phe Ala Gln Leu Trp Thr Val
 1 5 10 15
 Tyr Cys Glu Gln Ser Ala Val Ala Thr Asn Leu Gln Asn Gln Asn Glu
 20 25 30
 Phe Ser Phe Thr Ala Ile Leu Thr Ala Leu Glu Phe Trp Ser Arg Val
 35 40 45
 Thr Pro Ser Ile Leu Gln Leu Met Ala His Asn Lys Xaa Met Val Glu
 50 55 60
 Met Val Cys Leu His Val Ile Ser Leu Met Glu Ala Leu Gln Xaa Cys
 65 70 75 80
 Asn Ser Thr Ile Phe Val Lys Leu Ile Pro Met Trp Leu Pro Met Ile
 85 90 95
 Gln Ser Asn Ile Lys His Leu Ser Ala Gly Leu Gln Leu Arg Leu Gln
 100 105 110
 Ala Ile Gln Asn His Val Asn His His Ser Leu Arg Thr Leu Pro Gly
 115 120 125
 Ser Gly Gln Ser Ser Ala Gly Leu Ala Ala Leu Arg Lys Trp Leu Gln
 130 135 140
 Cys Thr Gln Phe Lys Met Ala Gln Val Glu Ile Gln Ser Ser Glu Ala
 145 150 155 160
 Ala Ser Gln Phe Tyr Pro Leu
 165

<210> 2218
 <211> 110

<212> PRT

<213> Homo sapiens

<400> 2218

Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala Glu Tyr
1 5 10 15

Leu Lys Val Gly Ser Glu Gly His Phe Arg Val Pro Ala Leu Gly Tyr
20 25 30

Leu Asp Val Arg Ile Val Asp Thr Asp Tyr Ser Ser Phe Ala Val Leu
35 40 45

Tyr Ile Tyr Lys Glu Leu Glu Gly Ala Leu Ser Thr Met Val Gln Leu
50 55 60

Tyr Ser Arg Thr Gln Asp Val Ser Pro Gln Ala Leu Lys Ala Phe Gln
65 70 75 80

Asp Phe Tyr Pro Thr Leu Gly Leu Pro Glu Asp Met Met Val Met Leu
85 90 95

Pro Gln Ser Asp Ala Cys Asn Pro Glu Ser Lys Glu Ala Pro
100 105 110

<210> 2219

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2219

Ile Ser Leu Leu Trp Asn Leu Trp Gln Ser Val Lys Ile Gly Cys Gly
1 5 10 15

Glu Lys Leu Tyr Pro Gly His Thr Lys Asp Ser Arg Asn His Leu Gly
20 25 30

Gln Asn Leu Ser Phe Leu His Phe Ile Tyr Leu Phe Pro Pro Pro His
35 40 45

Ser Thr His Thr Leu Pro Thr Ser Ser Thr Ser Thr Phe Lys His Lys
50 55 60

Asp Val Arg Val Phe Ser Leu Ser Val Ser Trp Arg Thr Gly Cys Trp
65 70 75 80

Glu Arg Lys Gly Gln Met Ser Lys Gly Gly Cys Arg Ala Gly Gln Ala
85 90 95

Asp Ser Gly Gly Xaa Leu Glu Glu Leu Xaa Pro Ser Gln Thr Trp Val
100 105 110

Ser Lys Thr
115

<210> 2220
<211> 262
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (254)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2220
Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu
1 5 10 15

Ala Phe Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg
20 25 30

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr
35 40 45

Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys
50 55 60

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp
65 70 75 80

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His
85 90 95

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser
100 105 110

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr
115 120 125

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys
130 135 140

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val
145 150 155 160

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly
165 170 175

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr
180 185 190

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile
195 200 205

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His

210	215	220
Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser		
225	230	235
Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Xaa Thr Ser		
245	250	255
Arg Asn Phe Gln Thr Lys		
260		

<210> 2221

<211> 514

<212> PRT

<213> Homo sapiens

<400> 2221

Glu	Leu	Cys	Arg	Gln	Pro	Lys	Pro	Ser	Thr	Val	Gln	Ala	Cys	Asn	Arg
1															15

Phe	Asn	Cys	Pro	Pro	Ala	Trp	Tyr	Pro	Ala	Gln	Trp	Gln	Pro	Cys	Ser
															30
20															

Arg	Thr	Cys	Gly	Gly	Gly	Val	Gln	Lys	Arg	Glu	Val	Leu	Cys	Lys	Gln
35															45

Arg	Met	Ala	Asp	Gly	Ser	Phe	Leu	Glu	Leu	Pro	Glu	Thr	Phe	Cys	Ser
50															60

Ala	Ser	Lys	Pro	Ala	Cys	Gln	Gln	Ala	Cys	Lys	Lys	Asp	Asp	Cys	Pro
65															80

Ser	Glu	Trp	Leu	Leu	Ser	Asp	Trp	Thr	Glu	Cys	Ser	Thr	Ser	Cys	Gly
85															95

Glu	Gly	Thr	Gln	Thr	Arg	Ser	Ala	Ile	Cys	Arg	Lys	Met	Leu	Lys	Thr
100															110

Gly	Leu	Ser	Thr	Val	Val	Asn	Ser	Thr	Leu	Cys	Pro	Pro	Leu	Pro	Phe
115															125

Ser	Ser	Ser	Ile	Arg	Pro	Cys	Met	Leu	Ala	Thr	Cys	Ala	Arg	Pro	Gly
130															140

Arg	Pro	Ser	Thr	Lys	His	Ser	Pro	His	Ile	Ala	Ala	Ala	Arg	Lys	Val
145															160

Tyr	Ile	Gln	Thr	Arg	Arg	Gln	Arg	Lys	Leu	His	Phe	Val	Val	Gly	Gly
165															175

Phe	Ala	Tyr	Leu	Leu	Pro	Lys	Thr	Ala	Val	Val	Leu	Arg	Cys	Pro	Ala
180															190

Arg	Arg	Val	Arg	Lys	Pro	Leu	Ile	Thr	Trp	Glu	Lys	Asp	Gly	Gln	His
195															205

Leu	Ile	Ser	Ser	Thr	His	Val	Thr	Val	Ala	Pro	Phe	Gly	Tyr	Leu	Lys
210															220

Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val Tyr Thr Cys Ser Ala
225 230 235 240
Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile Gly Gly Asn Arg
245 250 255
Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu Glu Val Leu
260 265 270
Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln Thr His Lys His
275 280 285
Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu Lys Arg Gly Leu
290 295 300
Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val Ser Arg Leu Leu
305 310 315 320
Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser Trp Glu Ala Gln
325 330 335
Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp Pro Gly Ala Glu
340 345 350
Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr Glu Gln Arg Arg
355 360 365
Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro Glu Glu Leu Arg
370 375 380
Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala Gln Glu Ile Phe
385 390 395 400
Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys Pro Ser Glu Arg
405 410 415
Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His Val Ser Gly Phe
420 425 430
Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala Gly Gly Ser
435 440 445
Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys Ile Ser Ala Ala
450 455 460
Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu Gly Gln Thr Val
465 470 475 480
Ala Leu Ala Ser Gly Thr Leu Ser Val Phe Cys Thr Val Arg Pro Ser
485 490 495
Ala Thr Gln Gly Leu Pro Ser Ala Gly Pro Gly Met Glu Lys Lys Ser
500 505 510
Val Gln

<210> 2222

<211> 1745

<212> PRT

<213> Homo sapiens

<400> 2222

Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu
1 5 10 15

Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg
20 25 30

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr
35 40 45

Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys
50 55 60

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp
65 70 75 80

Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His
85 90 95

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser
100 105 110

Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr
115 120 125

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys
130 135 140

Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val
145 150 155 160

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly
165 170 175

Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr
180 185 190

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile
195 200 205

Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His
210 215 220

Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser
225 230 235 240

Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Val Asp Phe
245 250 255

Gln Lys Phe Pro Asp Lys Glu Ile Leu Arg Met Ala Gly Pro Leu Thr
260 265 270

Ala Asp Phe Ile Val Lys Ile Arg Asn Ser Gly Ser Ala Asp Ser Thr
275 280 285

Val Gln Phe Ile Phe Tyr Gln Pro Ile Ile His Arg Trp Arg Glu Thr
290 295 300

Asp Phe Phe Pro Cys Ser Ala Thr Cys Gly Gly Gly Tyr Gln Leu Thr
305 310 315 320

Ser Ala Glu Cys Tyr Asp Leu Arg Ser Asn Arg Val Val Ala Asp Gln
325 330 335

Tyr Cys His Tyr Tyr Pro Glu Asn Ile Lys Pro Lys Pro Lys Leu Gln
340 345 350

Glu Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ala Thr Pro Trp
355 360 365

Thr Ala Cys Ser Ser Ser Cys Gly Gly Ile Gln Ser Arg Ala Val
370 375 380

Ser Cys Val Glu Glu Asp Ile Gln Gly His Val Thr Ser Val Glu Glu
385 390 395 400

Trp Lys Cys Met Tyr Thr Pro Lys Met Pro Ile Ala Gln Pro Cys Asn
405 410 415

Ile Phe Asp Cys Pro Lys Trp Leu Ala Gln Glu Trp Ser Pro Cys Thr
420 425 430

Val Thr Cys Gly Gln Gly Leu Arg Tyr Arg Val Val Leu Cys Ile Asp
435 440 445

His Arg Gly Met His Thr Gly Gly Cys Ser Pro Lys Thr Lys Pro His
450 455 460

Ile Lys Glu Glu Cys Ile Val Pro Thr Pro Cys Tyr Lys Pro Lys Glu
465 470 475 480

Lys Leu Pro Val Glu Ala Lys Leu Pro Trp Phe Lys Gln Ala Gln Glu
485 490 495

Leu Glu Glu Gly Ala Ala Val Ser Glu Glu Pro Ser Phe Ile Pro Lys
500 505 510

Ala Trp Ser Ala Cys Thr Val Thr Cys Gly Val Gly Thr Gln Val Arg
515 520 525

Ile Val Arg Cys Gln Val Leu Leu Ser Phe Ser Gln Ser Val Ala Asp
530 535 540

Leu Pro Ile Asp Glu Cys Glu Gly Pro Lys Pro Ala Ser Gln Arg Ala
545 550 555 560

Cys Tyr Ala Gly Pro Cys Ser Gly Glu Ile Pro Glu Phe Asn Pro Asp
565 570 575

Glu Thr Asp Gly Leu Phe Gly Gly Leu Gln Asp Phe Asp Glu Leu Tyr
580 585 590

Asp Trp Glu Tyr Glu Gly Phe Thr Lys Cys Ser Glu Ser Cys Gly Gly
595 600 605

Gly Val Gln Glu Ala Val Val Ser Cys Leu Asn Lys Gln Thr Arg Glu
610 615 620

Pro Ala Glu Glu Asn Leu Cys Val Thr Ser Arg Arg Pro Pro Gln Leu
625 630 635 640

Leu Lys Ser Cys Asn Leu Asp Pro Cys Pro Ala Arg Trp Glu Ile Gly
645 650 655

Lys Trp Ser Pro Cys Ser Leu Thr Cys Gly Val Gly Leu Gln Thr Arg
660 665 670

Asp Val Phe Cys Ser His Leu Leu Ser Arg Glu Met Asn Glu Thr Val
675 680 685

Ile Leu Ala Asp Glu Leu Cys Arg Gln Pro Lys Pro Ser Thr Val Gln
690 695 700

Ala Cys Asn Arg Phe Asn Cys Pro Pro Ala Trp Tyr Pro Ala Gln Trp
705 710 715 720

Gln Pro Cys Ser Arg Thr Cys Gly Gly Val Gln Lys Arg Glu Val
725 730 735

Leu Cys Lys Gln Arg Met Ala Asp Gly Ser Phe Leu Glu Leu Pro Glu
740 745 750

Thr Phe Cys Ser Ala Ser Lys Pro Ala Cys Gln Gln Ala Cys Lys Lys
755 760 765

Asp Asp Cys Pro Ser Glu Trp Leu Leu Ser Asp Trp Thr Glu Cys Ser
770 775 780

Thr Ser Cys Gly Glu Gly Thr Gln Thr Arg Ser Ala Ile Cys Arg Lys
785 790 795 800

Met Leu Lys Thr Gly Leu Ser Thr Val Val Asn Ser Thr Leu Cys Pro
805 810 815

Pro Leu Pro Phe Ser Ser Ser Ile Arg Pro Cys Met Leu Ala Thr Cys
820 825 830

Ala Arg Pro Gly Arg Pro Ser Thr Lys His Ser Pro His Ile Ala Ala
835 840 845

Ala Arg Lys Val Tyr Ile Gln Thr Arg Arg Gln Arg Lys Leu His Phe
850 855 860

Val Val Gly Gly Phe Ala Tyr Leu Leu Pro Lys Thr Ala Val Val Leu
865 870 875 880

Arg Cys Pro Ala Arg Arg Val Arg Lys Pro Leu Ile Thr Trp Glu Lys
885 890 895

Asp Gly Gln His Leu Ile Ser Ser Thr His Val Thr Val Ala Pro Phe
900 905 910

Gly Tyr Leu Lys Ile His Arg Leu Lys Pro Ser Asp Ala Gly Val Tyr
915 920 925

Thr Cys Ser Ala Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile
930 935 940

Gly Gly Asn Arg Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu
945 950 955 960

Glu Glu Val Leu Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln
965 970 975

Thr His Lys His Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu
980 985 990

Lys Arg Gly Leu Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val
995 1000 1005

Ser Arg Leu Leu Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser
1010 1015 1020

Trp Glu Ala Gln Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp
1025 1030 1035 1040

Pro Gly Ala Glu Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr
1045 1050 1055

Glu Gln Arg Arg Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro
1060 1065 1070

Glu Glu Leu Arg Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala
1075 1080 1085

Gln Glu Ile Phe Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys
1090 1095 1100

Pro Ser Glu Arg Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His
1105 1110 1115 1120

Val Ser Gly Phe Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala
1125 1130 1135

Gly Gly Gly Ser Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys
1140 1145 1150

Ile Ser Ala Ala Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu
1155 1160 1165

Gly Gln Thr Val Ala Leu Ala Ser Gly Thr Leu Ser Val Leu Leu His
1170 1175 1180

Cys Glu Ala Ile Gly His Pro Arg Pro Thr Ile Ser Trp Ala Arg Asn
1185 1190 1195 1200

Gly Glu Glu Val Gln Phe Ser Asp Arg Ile Leu Leu Gln Pro Asp Asp
1205 1210 1215

Ser Leu Gln Ile Leu Ala Pro Val Glu Ala Asp Val Gly Phe Tyr Thr
1220 1225 1230

Cys Asn Ala Thr Asn Ala Leu Gly Tyr Asp Ser Val Ser Ile Ala Val
1235 1240 1245

Thr Leu Ala Gly Lys Pro Leu Val Lys Thr Ser Arg Met Thr Val Ile
 1250 1255 1260
 Asn Thr Glu Lys Pro Ala Val Thr Val Asp Ile Gly Ser Thr Ile Lys
 1265 1270 1275 1280
 Thr Val Gln Gly Val Asn Val Thr Ile Asn Cys Gln Val Ala Gly Val
 1285 1290 1295
 Pro Glu Ala Glu Val Thr Trp Phe Arg Asn Lys Ser Lys Leu Gly Ser
 1300 1305 1310
 Pro His His Leu His Glu Gly Ser Leu Leu Leu Thr Asn Val Ser Ser
 1315 1320 1325
 Ser Asp Gln Gly Leu Tyr Ser Cys Arg Ala Ala Asn Leu His Gly Glu
 1330 1335 1340
 Leu Thr Glu Ser Thr Gln Leu Leu Ile Leu Asp Pro Pro Gln Val Pro
 1345 1350 1355 1360
 Thr Gln Leu Glu Asp Ile Arg Ala Leu Leu Ala Ala Thr Gly Pro Asn
 1365 1370 1375
 Leu Pro Ser Val Leu Thr Ser Pro Leu Gly Thr Gln Leu Val Leu Asp
 1380 1385 1390
 Pro Gly Asn Ser Ala Leu Leu Gly Cys Pro Ile Lys Gly His Pro Val
 1395 1400 1405
 Pro Asn Ile Thr Trp Phe His Gly Gly Gln Pro Ile Val Thr Ala Thr
 1410 1415 1420
 Gly Leu Thr His His Ile Leu Ala Ala Gly Gln Ile Leu Gln Val Ala
 1425 1430 1435 1440
 Asn Leu Ser Gly Gly Ser Gln Gly Glu Phe Ser Cys Leu Ala Gln Asn
 1445 1450 1455
 Glu Ala Gly Val Leu Met Gln Lys Ala Ser Leu Val Ile Gln Asp Tyr
 1460 1465 1470
 Trp Trp Ser Val Asp Arg Leu Ala Thr Cys Ser Ala Ser Cys Gly Asn
 1475 1480 1485
 Arg Gly Val Gln Gln Pro Arg Leu Arg Cys Leu Leu Asn Ser Thr Glu
 1490 1495 1500
 Val Asn Pro Ala His Cys Ala Gly Lys Val Arg Pro Ala Val Gln Pro
 1505 1510 1515 1520
 Ile Ala Cys Asn Arg Arg Asp Cys Pro Ser Arg Trp Met Val Thr Ser
 1525 1530 1535
 Trp Ser Ala Cys Thr Arg Ser Cys Gly Gly Gly Val Gln Thr Arg Arg
 1540 1545 1550
 Val Thr Cys Gln Lys Leu Lys Ala Ser Gly Ile Ser Thr Pro Val Ser
 1555 1560 1565

Asn Asp Met Cys Thr Gln Val Ala Lys Arg Pro Val Asp Thr Gln Ala
1570 1575 1580

Cys Asn Gln Gln Leu Cys Val Glu Trp Ala Phe Ser Ser Trp Gly Gln
1585 1590 1595 1600

Cys Asn Gly Pro Cys Ile Gly Pro His Leu Ala Val Gln His Arg Gln
1605 1610 1615

val Phe Cys Gln Thr Arg Asp Gly Ile Thr Leu Pro Ser Glu Gln Cys
1620 1625 1630

Ser Ala Leu Pro Arg Pro Val Ser Thr Gln Asn Cys Trp Ser Glu Ala
1635 1640 1645

Cys Ser Val His Trp Arg Val Ser Leu Trp Thr Leu Cys Thr Ala Thr
1650 1655 1660

Cys Gly Asn Tyr Gly Phe Gln Ser Arg Arg Val Glu Cys Val His Ala
1665 1670 1675 1680

Arg Thr Asn Lys Ala Val Pro Glu His Leu Cys Ser Trp Gly Pro Arg
1685 1690 1695

Pro Ala Asn Trp Gln Arg Cys Asn Ile Thr Pro Cys Glu Asn Met Glu
1700 1705 1710

Cys Arg Asp Thr Thr Arg Tyr Cys Glu Lys Val Lys Gln Leu Lys Leu
1715 1720 1725

Cys Gln Leu Ser Gln Phe Lys Ser Arg Cys Cys Gly Thr Cys Gly Lys
1730 1735 1740

Ala
1745

<210> 2223
<211> 19
<212> PRT
<213> Homo sapiens

<400> 2223
Glu Cys Cys Glu Thr Ala Ala Pro Pro Gly Pro His Arg Arg Pro Glu
1 5 10 15

Ser Gly Gln

<210> 2224
<211> 363
<212> PRT
<213> Homo sapiens

<400> 2224
Met Ala Ala Val Leu Thr Trp Ala Leu Ala Leu Ser Ala Phe Ser
1 5 10 15

Ala Thr Gln Ala Arg Lys Gly Phe Trp Asp Tyr Phe Ser Gln Thr Ser
 20 25 30
 Gly Asp Lys Gly Arg Val Glu Gln Ile His Gln Gln Lys Met Ala Arg
 35 40 45
 Glu Pro Ala Thr Leu Lys Asp Ser Leu Glu Gln Asp Leu Asn Asn Met
 50 55 60
 Asn Lys Phe Leu Glu Lys Leu Arg Pro Leu Ser Gly Ser Glu Ala Pro
 65 70 75 80
 Arg Leu Pro Gln Asp Pro Val Gly Met Arg Arg Gln Leu Gln Glu Glu
 85 90 95
 Leu Glu Glu Val Lys Ala Arg Leu Gln Pro Tyr Met Ala Glu Ala His
 100 105 110
 Glu Leu Val Gly Trp Asn Leu Glu Gly Leu Arg Gln Gln Leu Lys Pro
 115 120 125
 Tyr Thr Met Asp Leu Met Glu Gln Val Ala Leu Arg Val Gln Glu Leu
 130 135 140
 Gln Glu Gln Leu Arg Val Val Gly Glu Asp Thr Lys Ala Gln Leu Leu
 145 150 155 160
 Gly Gly Val Asp Glu Ala Trp Ala Leu Leu Gln Gly Leu Gln Ser Arg
 165 170 175
 Val Val His His Thr Gly Arg Phe Lys Glu Leu Phe His Pro Tyr Ala
 180 185 190
 Glu Ser Leu Val Ser Gly Ile Gly Arg His Val Gln Glu Leu His Arg
 195 200 205
 Ser Val Ala Pro His Ala Pro Ala Ser Pro Ala Arg Leu Ser Arg Cys
 210 215 220
 Val Gln Val Leu Ser Arg Lys Leu Thr Leu Lys Ala Lys Ala Leu His
 225 230 235 240
 Ala Arg Ile Gln Gln Asn Leu Asp Gln Leu Arg Glu Glu Leu Ile Arg
 245 250 255
 Ala Phe Ala Gly Thr Gly Thr Glu Glu Gly Ala Gly Pro Asp Pro Gln
 260 265 270
 Met Leu Ser Glu Glu Val Arg Gln Arg Leu Gln Ala Phe Arg Gln Asp
 275 280 285
 Thr Tyr Leu Gln Ile Ala Ala Phe Thr Arg Ala Ile Asp Gln Glu Thr
 290 295 300
 Glu Glu Val Gln Gln Gln Leu Ala Pro Pro Pro Pro Gly His Ser Ala
 305 310 315 320
 Phe Ala Pro Glu Phe Gln Gln Thr Asp Ser Gly Lys Val Leu Ser Lys
 325 330 335

Leu Gln Ala Arg Leu Asp Asp Leu Trp Glu Asp Ile Thr His Ser Leu
340 345 350

His Asp Gln Gly His Ser His Leu Gly Asp Pro
355 360

<210> 2225
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2225
Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Ser Leu
1 5 10 15

Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
20 25 30

Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
35 40 45

Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro
50 55 60

Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro
65 70 75 80

Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala
85 90 95

Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu
100 105 110

Ile Gly Glu Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Arg Gly
115 120 125

Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln Gly Gln Gly
130 135 140

Arg Xaa His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr Thr Asp Val
145 150 155 160

Ala Phe Leu Asp Asp Arg His Ala Gly Ser Gly Cys Pro Ser Ser Arg
165 170 175

Arg Leu Cys Gly Cys Gly Gly
180

<210> 2226

<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2226

Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Ser Leu
1 5 10 15

Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
20 25 30

Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
35 40 45

Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro
50 55 60

Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro
65 70 75 80

Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala
85 90 95

Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu
100 105 110

Ile Gly Glu Xaa His Leu Pro Leu Leu Arg Arg Gln Leu Pro Pro Trp
115 120 125

Cys Pro His Pro Ala Trp Xaa Gly Ala Gly Pro Ala Ala Gly Pro Gly
130 135 140

Pro Xaa Pro Arg Arg Ala Leu Leu Pro Ala His Ser Leu His Arg Arg
145 150 155 160

Gly Leu Pro Arg Arg Pro Pro Arg Trp Gln Arg Leu Pro Gln Leu Ser

165	170	175
Ala Ala Leu Arg Leu Trp Trp Leu Arg Val Pro Gly Leu Ala Pro Arg		
180	185	190
Ser Cys Ser Ala Gly Gly Ala Arg Leu Thr Tyr Leu Leu Glu Thr Trp		
195	200	205
Met Gln Arg Gln Arg Gly Gly Glu Trp Ala Gly Ala Thr Ser Ser Glu		
210	215	220
Cys Asn Lys Gly His His Ser Pro Gly Lys Lys Lys Lys Lys Lys		
225	230	235
Lys Lys Lys Lys Lys Leu Glu Gly Ser Arg Tyr		
245	250	

<210> 2227

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2227

Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val		
1	5	10
		15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr		
20	25	30

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser		
35	40	45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp		
50	55	60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln		
65	70	75
		80

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn		
85	90	95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn		
100	105	110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys		
115	120	125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro		
130	135	140

Ile Ser Ile Met Ile Cys		
145	150	

<210> 2228

<211> 125

<212> PRT

<213> Homo sapiens

<400> 2228

Met Ile Pro Phe Pro Ala Cys Leu Leu Leu Ala Leu Phe Pro Lys Val
1 5 10 15

Gln Val Gly Arg Thr Thr Ser Ala Tyr Phe Ser Thr Ile Pro Ser Met
20 25 30

Pro Ala Arg Ser Gln Ile Asn Leu Pro Val Glu Ser Gly Ser Ala Leu
35 40 45

Leu Glu Pro Arg Gly Lys Gly Arg Val Glu Arg Val Cys Pro Val Ala
50 55 60

Trp Ser Ser Met Val Ala Ser Cys Leu Pro Ser Pro Ser Ser Gly Gly
65 70 75 80

Pro Glu Gly Ser Leu Gly Thr Val Pro Gln Ile Leu Thr Gln Gly Pro
85 90 95

Ala Trp Gly Arg Asp Gly Cys Arg Gln Asn Ala Leu Tyr Arg Asp Phe
100 105 110

Leu Leu Leu Gly Arg Cys Val Ser Pro Thr Ile Cys Leu
115 120 125

<210> 2229

<211> 766

<212> PRT

<213> Homo sapiens

<400> 2229

Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala
1 5 10 15

Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val
20 25 30

Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu
35 40 45

Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val
50 55 60

Asp Arg Ser Arg Gln Gly Phe Ser Thr Arg Tyr Lys Ile Tyr Arg Glu
65 70 75 80

Phe Gly Arg Trp Lys Val Asn Asn Leu Ala Val Glu Arg Arg Asn Phe
85 90 95

Leu Gly Ser Pro Leu Pro Leu Ala Pro Glu Phe Phe Arg Asn Ile Arg
100 105 110

Leu Leu Gly Arg Arg Pro Thr Leu Gln Gln Ile Thr Glu Asn Leu Ile
115 120 125

Lys Lys Tyr Gly Thr His Phe Leu Leu Ser Ala Thr Leu Gly Gly Glu

130	135	140
Glu Ser Leu Thr Ile Phe Val Asp Lys Arg Lys Leu Ser Lys Arg Ala		
145	150	155
Glu Gly Ser Asp Ser Thr Thr Asn Ser Ser Ser Val Thr Leu Glu Thr		
165	170	175
Leu His Gln Leu Ala Ala Ser Tyr Phe Ile Asp Arg Asp Ser Thr Leu		
180	185	190
Arg Arg Leu His His Ile Gln Ile Ala Ser Thr Ala Ile Lys Val Thr		
195	200	205
Glu Thr Arg Thr Gly Pro Leu Gly Cys Ser Asn Tyr Asp Asn Leu Asp		
210	215	220
Ser Val Ser Ser Val Leu Val Gln Ser Pro Glu Asn Lys Ile Gln Leu		
225	230	235
Gln Gly Leu Gln Val Leu Leu Pro Asp Tyr Leu Gln Glu Arg Phe Val		
245	250	255
Gln Ala Ala Leu Ser Tyr Ile Ala Cys Asn Ser Glu Gly Glu Phe Ile		
260	265	270
Cys Lys Glu Asn Asp Cys Trp Cys His Cys Gly Pro Lys Phe Pro Glu		
275	280	285
Cys Asn Cys Pro Ser Met Asp Ile Gln Ala Met Glu Glu Asn Leu Leu		
290	295	300
Arg Ile Thr Glu Thr Trp Lys Ala Tyr Asn Ser Asp Phe Glu Glu Ser		
305	310	315
Asp Glu Phe Lys Leu Phe Met Lys Arg Leu Pro Met Asn Tyr Phe Leu		
325	330	335
Asn Thr Ser Thr Ile Met His Leu Trp Thr Met Asp Ser Asn Phe Gln		
340	345	350
Arg Arg Tyr Glu Gln Leu Glu Asn Ser Met Lys Gln Leu Phe Leu Lys		
355	360	365
Ala Gln Lys Ile Val His Lys Leu Phe Ser Leu Ser Lys Arg Cys His		
370	375	380
Lys Gln Pro Leu Ile Ser Leu Pro Arg Gln Arg Thr Ser Thr Tyr Trp		
385	390	395
400		
Leu Thr Arg Ile Gln Ser Phe Leu Tyr Cys Asn Glu Asn Gly Leu Leu		
405	410	415
Gly Ser Phe Ser Glu Glu Thr His Ser Cys Thr Cys Pro Asn Asp Gln		
420	425	430
Val Val Cys Thr Ala Phe Leu Pro Cys Thr Val Gly Asp Ala Ser Ala		
435	440	445
Cys Leu Thr Cys Ala Pro Asp Asn Arg Thr Arg Cys Gly Thr Cys Asn		

450	455	460
Thr Gly Tyr Met Leu Ser Gln Gly Leu Cys Lys Pro Glu Val Ala Glu		
465	470	475
Ser Thr Asp His Tyr Ile Gly Phe Glu Thr Asp Leu Gln Asp Leu Glu		
485	490	495
Met Lys Tyr Leu Leu Gln Lys Thr Asp Arg Arg Ile Glu Val His Ala		
500	505	510
Ile Phe Ile Ser Asn Asp Met Arg Leu Asn Ser Trp Phe Asp Pro Ser		
515	520	525
Trp Arg Lys Arg Met Leu Leu Thr Leu Lys Ser Asn Lys Tyr Lys Ser		
530	535	540
Ser Leu Val His Met Ile Leu Gly Leu Ser Leu Gln Ile Cys Leu Thr		
545	550	555
Lys Asn Ser Thr Leu Glu Pro Val Leu Ala Val Tyr Val Asn Pro Phe		
565	570	575
Gly Gly Ser His Ser Glu Ser Trp Phe Met Pro Val Asn Glu Asn Ser		
580	585	590
Phe Pro Asp Trp Glu Arg Thr Lys Leu Asp Leu Pro Leu Gln Cys Tyr		
595	600	605
Asn Trp Thr Leu Thr Leu Gly Asn Lys Trp Lys Thr Phe Phe Glu Thr		
610	615	620
Val His Ile Tyr Leu Arg Ser Arg Ile Lys Ser Asn Gly Pro Asn Gly		
625	630	635
Asn Glu Ser Ile Tyr Tyr Glu Pro Leu Glu Phe Ile Asp Pro Ser Arg		
645	650	655
Asn Leu Gly Tyr Met Lys Ile Asn Asn Ile Gln Val Phe Gly Tyr Ser		
660	665	670
Met His Phe Asp Pro Glu Ala Ile Arg Asp Leu Ile Leu Gln Leu Asp		
675	680	685
Tyr Pro Tyr Thr Gln Gly Ser Gln Asp Ser Ala Leu Leu Gln Leu Leu		
690	695	700
Glu Ile Arg Asp Arg Val Asn Lys Leu Ser Pro Pro Gly Gln Arg Arg		
705	710	715
720		
Leu Asp Leu Phe Ser Cys Leu Leu Arg His Arg Leu Lys Leu Ser Thr		
725	730	735
Ser Glu Val Val Arg Ile Gln Ser Ala Leu Gln Ala Phe Asn Ala Lys		
740	745	750
Leu Pro Asn Thr Met Asp Tyr Asp Thr Thr Lys Leu Cys Ser		
755	760	765

<210> 2230

<211> 61

<212> PRT

<213> Homo sapiens

<400> 2230

Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala
1 5 10 15

Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser
20 25 30

Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr
35 40 45

His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln
50 55 60

<210> 2231

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2231

Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr
1 5 10 15

Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro
20 25 30

Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile
35 40 45

Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly
50 55 60

Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr
65 70 75 80

Leu Ile Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala
85 90 95

Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro
100 105 110

Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val
115 120 125

Phe Phe Val Arg Asp
130

<210> 2232

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2232
 Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr Leu Leu
 1 5 10 15
 Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro Trp Asn
 20 25 30
 Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile Leu Leu
 35 40 45
 Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly Phe Asp
 50 55 60
 Pro Arg His Gly Ser His Asn Ile Lys Lys Ala Trp Tyr Leu Ile
 65 70 75 80
 Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala Lys Leu
 85 90 95
 Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro Leu Trp
 100 105 110
 Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val Phe Phe
 115 120 125
 Val Arg Asp
 130

<210> 2233
 <211> 298
 <212> PRT
 <213> Homo sapiens
 <400> 2233
 Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu
 1 5 10 15
 Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp
 20 25 30
 Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu
 35 40 45
 Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile
 50 55 60
 Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr
 65 70 75 80
 Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu
 85 90 95
 Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp
 100 105 110
 Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe
 115 120 125

Asn	Lys	Ile	Lys	Lys	Leu	Thr	Ala	Lys	Asp	Phe	Ala	Asp	Ile	Pro	Asn
130					135						140				
Leu	Arg	Arg	Leu	Asp	Phe	Thr	Gly	Asn	Leu	Ile	Glu	Asp	Ile	Glu	Asp
145					150					155			160		
Gly	Thr	Phe	Ser	Lys	Leu	Ser	Leu	Leu	Glu	Glu	Leu	Ser	Leu	Ala	Glu
					165				170				175		
Asn	Gln	Leu	Leu	Lys	Leu	Pro	Val	Leu	Pro	Pro	Lys	Leu	Thr	Leu	Phe
					180			185				190			
Asn	Ala	Lys	Tyr	Asn	Lys	Ile	Lys	Ser	Arg	Gly	Ile	Lys	Ala	Asn	Ala
					195			200			205				
Phe	Lys	Lys	Leu	Asn	Asn	Leu	Thr	Phe	Leu	Tyr	Leu	Asp	His	Asn	Ala
					210			215			220				
Leu	Glu	Ser	Val	Pro	Leu	Asn	Leu	Pro	Glu	Ser	Leu	Arg	Val	Ile	His
					225			230			235			240	
Leu	Gln	Phe	Asn	Asn	Ile	Ala	Ser	Ile	Thr	Asp	Asp	Thr	Phe	Cys	Lys
					245			250				255			
Ala	Asn	Asp	Thr	Ser	Tyr	Ile	Arg	Asp	Arg	Ile	Glu	Ile	Arg	Leu	
					260			265			270				
Glu	Gly	Asn	Pro	Ile	Val	Leu	Gly	Lys	His	Pro	Asn	Ser	Phe	Ile	Cys
					275			280			285				
Leu	Lys	Arg	Leu	Pro	Ile	Gly	Ser	Tyr	Phe						
					290			295							
<210> 2234															
<211> 158															
<212> PRT															
<213> Homo sapiens															
<400> 2234															
Met	Ala	Ala	Ala	Ser	Ala	Gly	Ala	Thr	Arg	Leu	Leu	Leu	Leu	Leu	
1					5				10				15		
Met	Ala	Val	Ala	Ala	Pro	Ser	Arg	Ala	Arg	Gly	Ser	Gly	Cys	Arg	Ala
					20			25			30				
Gly	Thr	Gly	Ala	Arg	Gly	Ala	Gly	Ala	Glu	Gly	Arg	Glu	Gly	Glu	Ala
					35			40			45				
Cys	Gly	Thr	Val	Gly	Leu	Leu	Glu	His	Ser	Phe	Glu	Ile	Asp	Asp	
					50			55			60				
Ser	Ala	Asn	Phe	Arg	Lys	Arg	Gly	Ser	Leu	Leu	Trp	Asn	Gln	Gln	Asp
					65			70			75			80	
Gly	Thr	Leu	Ser	Leu	Ser	Gln	Arg	Gln	Leu	Ser	Glu	Glu	Glu	Arg	Gly
					85			90			95				

Arg Leu Arg Asp Val Ala Ala Ser Tyr Leu Asp Cys Gly Ala Thr Arg
100 105 110
Ala Cys Gly Pro Leu Leu Cys Ala Thr Leu Pro Val Ser Leu Phe Lys
115 120 125
Asn Ile Asp Asp Thr Leu Lys Cys Val Asn Val Leu Lys Ser Tyr Ser
130 135 140
Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser
145 150 155

<210> 2235
<211> 58
<212> PRT
<213> Homo sapiens

<400> 2235
Met Thr Lys Ala Leu Ile Pro Thr Pro Phe Phe Leu Ala Ala Met Trp
1 5 10 15

Pro Leu Trp Gln His Ser Trp Ala Gln Thr Leu Arg Ser Gln Arg Gln
20 25 30

Glu Ala Asp Ala Trp Ala Lys Ala Gly Ala Gly Asn Ser Arg Gly Ser
35 40 45

Leu Ala Trp Arg Leu Leu Met Ser Ser Gly
50 55

<210> 2236
<211> 71
<212> PRT
<213> Homo sapiens

<400> 2236
Met Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val Val Ala Ala
1 5 10 15

Phe Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln His Ile Glu
20 25 30

Pro Lys Ala Pro His His Gly Lys Met Pro Val Tyr Ser Ser Gly Val
35 40 45

Gly Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg Ser Thr Glu
50 55 60

Ile His Val Gly Leu Leu Asn
65 70

<210> 2237
<211> 605
<212> PRT

<213> Homo sapiens

<400> 2237

Met	Gly	Arg	Leu	Leu	Arg	Ala	Ala	Arg	Leu	Pro	Pro	Leu	Leu	Ser	Pro
1				5					10						15
Leu	Leu	Leu	Leu	Leu	Val	Gly	Gly	Ala	Phe	Leu	Gly	Ala	Cys	Val	Ala
				20					25						30
Gly	Ser	Asp	Glu	Pro	Gly	Pro	Glu	Gly	Leu	Thr	Ser	Thr	Ser	Leu	Leu
				35			40								45
Asp	Leu	Leu	Leu	Pro	Thr	Gly	Leu	Glu	Pro	Leu	Asp	Ser	Glu	Glu	Pro
				50			55								60
Ser	Glu	Thr	Met	Gly	Leu	Gly	Ala	Gly	Leu	Gly	Ala	Pro	Gly	Ser	Gly
			65		70				75						80
Phe	Pro	Ser	Glu	Glu	Asn	Glu	Glu	Ser	Arg	Ile	Leu	Gln	Pro	Pro	Gln
				85				90							95
Tyr	Phe	Trp	Glu	Glu	Glu	Glu	Glu	Leu	Asn	Asp	Ser	Ser	Leu	Asp	Leu
			100				105								110
Gly	Pro	Thr	Ala	Asp	Tyr	Val	Phe	Pro	Asp	Leu	Thr	Glu	Lys	Ala	Gly
			115			120						125			
Ser	Ile	Glu	Asp	Thr	Ser	Gln	Ala	Gln	Glu	Leu	Pro	Asn	Leu	Pro	Ser
			130			135					140				
Pro	Leu	Pro	Lys	Met	Asn	Leu	Val	Glu	Pro	Pro	Trp	His	Met	Pro	Pro
			145			150			155						160
Arg	Glu	Arg	Glu	Lys	Glu										
			165				170					175			
Glu	Val	Glu	Lys	Gln	Glu	Glu	Glu	Glu	Glu	Glu	Leu	Leu	Pro	Val	
			180				185					190			
Asn	Gly	Ser	Gln	Glu	Glu	Ala	Lys	Pro	Gln	Val	Arg	Asp	Phe	Ser	Leu
			195				200					205			
Thr	Ser	Ser	Ser	Gln	Thr	Pro	Gly	Ala	Thr	Lys	Ser	Arg	His	Glu	Asp
			210			215					220				
Ser	Gly	Asp	Gln	Ala	Ser	Ser	Gly	Val	Glu	Val	Glu	Ser	Ser	Met	Gly
			225			230			235						240
Pro	Ser	Leu	Leu	Leu	Pro	Ser	Val	Thr	Pro	Thr	Thr	Val	Thr	Pro	Gly
			245				250					255			
Asp	Gln	Asp	Ser	Thr	Ser	Gln	Glu	Ala	Glu	Ala	Thr	Val	Leu	Pro	Ala
			260			265					270				
Ala	Gly	Leu	Gly	Val	Glu	Phe	Glu	Ala	Pro	Gln	Glu	Ala	Ser	Glu	Glu
			275			280					285				
Ala	Thr	Ala	Gly	Ala	Ala	Gly	Leu	Ser	Gly	Gln	His	Glu	Glu	Val	Pro
			290				295					300			

Ala Leu Pro Ser Phe Pro Gln Thr Thr Ala Pro Ser Gly Ala Glu His
305 310 315 320
Pro Asp Glu Asp Pro Leu Gly Ser Arg Thr Ser Ala Ser Ser Pro Leu
325 330 335
Ala Pro Gly Asp Met Glu Leu Thr Pro Ser Ser Ala Thr Leu Gly Gln
340 345 350
Glu Asp Leu Asn Gln Gln Leu Leu Glu Gly Gln Ala Ala Glu Ala Gln
355 360 365
Ser Arg Ile Pro Trp Asp Ser Thr Gln Val Ile Cys Lys Asp Trp Ser
370 375 380
Asn Leu Ala Gly Lys Asn Tyr Ile Ile Leu Asn Met Thr Glu Asn Ile
385 390 395 400
Asp Cys Glu Val Phe Arg Gln His Arg Gly Pro Gln Leu Leu Ala Leu
405 410 415
Val Glu Glu Val Leu Pro Arg His Gly Ser Gly His His Gly Ala Trp
420 425 430
His Ile Ser Leu Ser Lys Pro Ser Glu Lys Glu Gln His Leu Leu Met
435 440 445
Thr Leu Val Gly Glu Gln Gly Val Val Pro Thr Gln Asp Val Leu Ser
450 455 460
Met Leu Gly Asp Ile Arg Arg Ser Leu Glu Glu Ile Gly Ile Gln Asn
465 470 475 480
Tyr Ser Thr Thr Ser Ser Cys Gln Ala Arg Ala Ser Gln Val Arg Ser
485 490 495
Asp Tyr Gly Thr Leu Phe Val Val Leu Val Val Ile Gly Ala Ile Cys
500 505 510
Ile Ile Ile Ile Ala Leu Gly Leu Leu Tyr Asn Cys Trp Gln Arg Arg
515 520 525
Leu Pro Lys Leu Lys His Val Ser His Gly Glu Glu Leu Arg Phe Val
530 535 540
Glu Asn Gly Cys His Asp Asn Pro Thr Leu Asp Val Ala Ser Asp Ser
545 550 555 560
Gln Ser Glu Met Gln Glu Lys His Pro Ser Leu Asn Gly Gly Ala
565 570 575
Leu Asn Gly Pro Gly Ser Trp Gly Ala Leu Met Gly Gly Lys Arg Asp
580 585 590
Pro Glu Asp Ser Asp Val Phe Glu Glu Asp Thr His Leu
595 600 605

<211> 432

<212> PRT

<213> Homo sapiens

<400> 2238

Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser
1 5 10 15

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr
20 25 30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser
35 40 45

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn
50 55 60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys
65 70 75 80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro
85 90 95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu
100 105 110

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val
115 120 125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser
130 135 140

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg
145 150 155 160

Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
165 170 175

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser
180 185 190

Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser
195 200 205

Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met
210 215 220

Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr
225 230 235 240

Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser
245 250 255

Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu
260 265 270

Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp
275 280 285

Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe

290	295	300
Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu		
305	310	315
Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu		
325	330	335
Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln		
340	345	350
Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr		
355	360	365
Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu		
370	375	380
Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val		
385	390	395
Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys		
405	410	415
Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val		
420	425	430

<210> 2239

<211> 432

<212> PRT

<213> Homo sapiens

<400> 2239

Met Asp Ala Arg Trp Trp Ala Val Val Val	Leu Ala Ala Phe Pro Ser	
1	5	10
		15

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr		
20	25	30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser		
35	40	45

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn		
50	55	60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys		
65	70	75
		80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro		
85	90	95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu		
100	105	110

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val		
115	120	125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser
130 135 140

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg
145 150 155 160

val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln
165 170 175

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser
180 185 190

Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser
195 200 205

Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met
210 215 220

Leu Met Gly Lys Leu Val Ser Arg Arg Ser Tyr Glu His Trp Glu Tyr
225 230 235 240

Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser
245 250 255

Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu
260 265 270

Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp
275 280 285

Gln Asp Ala Leu Phe Ala Tyr Lys Met Ser Ser Val Gln Met Met Phe
290 295 300

Gly Val Asn Phe Phe Ser Cys Leu Phe Thr Val Gly Ser Leu Leu Glu
305 310 315 320

Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu
325 330 335

Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln
340 345 350

Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr
355 360 365

Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu
370 375 380

Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val
385 390 395 400

Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys
405 410 415

Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val
420 425 430

<210> 2240

<211> 69

<212> PRT

<213> Homo sapiens

<400> 2240

Met Lys Ala Val Val Leu Leu Lys Ala Phe Ser Phe Ser Leu Cys Ser
1 5 10 15

Ala Ile Ser Pro Val Thr Pro Gly Phe Arg Gln Thr Ile Asn Val Leu
20 25 30

Asp Thr Val Ala Phe Ser Ala Phe Phe Ile Tyr Leu Phe Thr Val Thr
35 40 45

Ala Ser Ile Asn Phe Tyr Ala Tyr Phe Ser Ser Phe Leu Ala Gly Ala
50 55 60

Pro Phe Ile Lys Ile

65

<210> 2241

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2241

Met Leu Asp Leu Ser Pro Ser Leu Thr Leu Lys Phe Cys Phe Leu His
1 5 10 15

Leu Val Phe Leu Pro Phe Lys Val Tyr Cys Gln Leu Leu Gln Glu Leu
20 25 30

Leu Ser Lys Pro Val Ser Lys Leu Pro Leu Thr Pro Gln Cys Gln Ser
35 40 45

Trp Ala Arg Pro Leu Gly Asp Leu Glu

50 55

<210> 2242

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2242

Met Leu Arg Thr Leu Val Leu Lys Gln Thr Leu Asp Leu Leu Leu Pro
1 5 10 15

Leu Leu Glu Ala Leu Leu Val Leu Gly Val Pro Gln His Leu Glu Leu
20 25 30

Gln Pro Leu Pro Val Gln Val Ser Leu Leu Leu Gln Leu Leu Asp
35 40 45

Leu Gly Ser Leu Lys Ser His Arg Leu His His Phe His Ser Lys Ala
50 55 60

Leu Gln Leu Pro Val Leu Asp His Leu Asp Phe Gln Asp Phe Gln Leu
65 70 75 80

Pro Trp Gln Gln Val Leu Ser Glu Leu Pro Val Ala Pro Ala Phe Gly
85 90 95

Gly Gly Ser Ser Val Ala Gly Phe Gly Ser Pro Gly Leu Thr Phe Ser
100 105 110

His Trp Leu Phe Leu Ser His Pro Val Asp Thr Phe Gly Asn Ser Gln
115 120 125

Ala Tyr Pro Thr Ser Leu Ser Ala Leu Gln Ala Ser Ile Asn Cys Asn
130 135 140

Arg
145

<210> 2243
<211> 77
<212> PRT
<213> Homo sapiens

<400> 2243
Met Ala Ile Cys Gln Phe Phe Leu Gln Gly Arg Cys Arg Phe Gly Asp
1 5 10 15

Arg Cys Trp Asn Glu His Pro Gly Ala Arg Gly Ala Gly Gly Arg
20 25 30

Gln Gln Pro Gln Gln Gln Pro Ser Gly Asn Asn Arg Arg Gly Trp Asn
35 40 45

Thr Thr Ser Gln Arg Tyr Ser Asn Val Ile Gln Pro Ser Ser Phe Ser
50 55 60

Lys Ser Thr Pro Trp Gly Gly Ser Arg Asp Gln Glu Thr
65 70 75

<210> 2244
<211> 86
<212> PRT
<213> Homo sapiens

<400> 2244
Met Tyr Lys Leu Glu Leu Ile Phe Pro Thr Ala Leu Val Leu Pro Ile
1 5 10 15

Leu Val Asn Gly Thr Val Ile Cys Pro Leu Lys Ala Arg Asn Ser Val
20 25 30

Ile Pro Ser Ser Ser Phe Leu Thr Ser Leu Gln Leu Thr Ile Trp Ile

35

40

45

Gln Pro Cys Leu Phe Leu Pro Thr Thr Gly Leu Ser Ser Gly Tyr
 50 55 60

His Thr Phe Leu Ser Gly Leu His Ser Cys His Ile Ser Phe Ala Thr
 65 70 75 80

Ala Ile Pro Gly Cys Leu
 85

<210> 2245

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2245

Met Gly Leu Gly Ala Arg Gly Ala Trp Ala Ala Leu Leu Leu Gly Thr
 1 5 10 15

Leu Gln Val Leu Ala Leu Leu Gly Ala Ala His Glu Ser Ala Ala Met
 20 25 30

Ala Ala Ser Ala Asn Ile Glu Asn Ser Gly Leu Pro His Asn Ser Ser
 35 40 45

Ala Asn Ser Thr Glu Thr Leu Gln His Val Pro Ser Asp His Thr Asn
 50 55 60

Glu Thr Ser Asn Ser Thr Val Lys Pro Pro Thr Ser Val Ala Ser Asp
 65 70 75 80

Ser Ser Asn Thr Thr Val Thr Met Lys Pro Thr Ala Ala Ser Asn
 85 90 95

Thr Thr Thr Pro Gly Met Val Ser Thr Asn Met Thr Ser Thr Thr Leu
 100 105 110

Lys Ser Thr Pro Lys Thr Thr Ser Val Ser Gln Asn Thr Ser Gln Ile
 115 120 125

Ser Thr Ser Thr Met Thr Val Thr His Asn Ser Ser Val Thr Ser Ala
 130 135 140

Ala Ser Ser Val Thr Ile Thr Thr Met His Ser Glu Ala Lys Lys
 145 150 155 160

Gly Ser Lys Phe Asp Thr Gly Ser Phe Val Gly Gly Ile Val Leu Thr
 165 170 175

Leu Gly Val Leu Ser Ile Leu Tyr Ile Gly Cys Lys Met Tyr Tyr Ser
 180 185 190

Arg Arg Gly Ile Arg Tyr Arg Thr Ile Asp Glu His Asp Ala Ile Ile
 195 200 205

<210> 2246

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2246

Met Arg Leu Pro Ala Trp Cys Arg His Thr Thr Leu Ala Ile Ser Cys
1 5 10 15

Trp His Cys Leu Val Leu Ala Arg Ala Ser Ala Asp Ser Ala Ser Leu
20 25 30

Pro Thr Ile Ser His Leu Gly Val Lys Pro Leu Ser Val Gly Trp Gly
35 40 45

Ala Pro Ser Thr Leu Pro Val Ser Pro Cys Gly Gly Lys Pro Ala Ala
50 55 60

Pro Thr Ser Ala Ser Pro Ala Ala Ala Pro Leu Arg Phe Trp Arg Pro
65 70 75 80

Gly Ala Ser Gly Gly Ala Gly Gly Thr Arg Arg Leu Ala Leu Cys
85 90 95

Arg Leu Val Thr Ala Arg Thr Thr Leu Ala Thr Gly Thr Pro Gly Leu
100 105 110

Ser Ala Arg Pro Arg Gln Arg Pro Cys Leu Leu Pro Val Leu Pro Arg
115 120 125

Arg Pro Ala Glu Leu Ser Val Ser Leu Glu Pro Ser Pro Gly Ser Ser
130 135 140

Gly Arg Gly Phe Leu Cys Leu Pro Phe Cys Lys Arg Asp Ala Asp Thr
145 150 155 160

Ser Leu Gly Gln Thr Leu Thr Ser Ser Cys Ser Leu Ser Ser Ile Leu
165 170 175

Val Gly Gly Thr Leu Arg Pro Arg Cys Ser Cys Pro Pro Phe Thr Gln
180 185 190

Arg Ser Ala Phe His Leu Arg Thr Pro His Asn Gln Tyr His His Gly
195 200 205

Ser Thr Ser Leu Ala Ser His
210 215

<210> 2247

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2247

Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn

1	5	10	15
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu			
20	25	30	
Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala			
35	40	45	
Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu			
50	55	60	
Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys			
65	70	75	80
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala			
85	90	95	
Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys			
100	105	110	
Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu			
115	120	125	
Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly			
130	135		

<210> 2248

<211> 363

<212> PRT

<213> Homo sapiens

<400> 2248

Met Lys Thr Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn			
1	5	10	15

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu			
20	25	30	

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala			
35	40	45	

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu			
50	55	60	

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys			
65	70	75	80

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala			
85	90	95	

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys			
100	105	110	

Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys			
115	120	125	

Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn			
130	135	140	

Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser
 145 150 155 160
 Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln
 165 170 175
 Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp
 180 185 190
 Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe
 195 200 205
 Ser Ser Phe Gln Arg Arg Pro Phe Phe Asn Ile Lys His Arg Phe
 210 215 220
 Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His
 225 230 235 240
 Asp Met Phe Gln Pro Phe Asp Met Ile His Gln Ala Gln Gln Ala
 245 250 255
 Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr
 260 265 270
 Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn
 275 280 285
 Ser Thr Gly Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu
 290 295 300
 Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu
 305 310 315 320
 Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys
 325 330 335
 Leu Val Arg Arg Ala Ala Val Leu Pro Gly Glu Asp Val Gln His
 340 345 350
 Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val
 355 360

<210> 2249
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 2249
 Met Ala Ala Gly Gly Cys Leu Leu Leu Leu Ala Phe Phe Pro Leu Ser
 1 5 10 15
 Arg Gly Ser His Phe His Leu Gln Lys Arg Ala Leu Ala Glu Ala Ser
 20 25 30
 Phe Glu Ala Thr Leu Cys Glu Leu Phe Val Ile Glu Thr Ala Ser Lys
 35 40 45

Gly Thr Leu Leu Ile Ile Thr Ile Arg His Leu Val Thr Tyr Ile Ile
50 55 60
Val Ile Phe Lys Cys His Met Leu Lys Asn Glu Met Asn Ser Ser Ile
65 70 75 80
Lys Pro His Phe Gln
85

<210> 2250

<211> 184

<212> PRT

<213> Homo sapiens

<400> 2250

Met Lys Ala Leu Gly Ala Val Leu Leu Ala Leu Leu Cys Gly Arg
1 5 10 15

Pro Gly Arg Gly Gln Thr Gln Gln Glu Glu Glu Glu Asp Glu Asp
20 25 30

His Gly Pro Asp Asp Tyr Asp Glu Glu Asp Glu Asp Val Glu Glu
35 40 45

Glu Glu Thr Asn Arg Leu Pro Gly Gly Arg Ser Arg Val Leu Leu Arg
50 55 60

Cys Tyr Thr Cys Lys Ser Leu Pro Arg Asp Glu Arg Cys Asn Leu Thr
65 70 75 80

Gln Asn Cys Ser His Gly Gln Thr Cys Thr Thr Leu Ile Ala His Gly
85 90 95

Asn Thr Glu Ser Gly Leu Leu Thr Thr His Ser Thr Trp Cys Thr Asp
100 105 110

Ser Cys Gln Pro Ile Thr Lys Thr Val Glu Gly Thr Gln Val Thr Met
115 120 125

Thr Cys Cys Gln Ser Ser Leu Cys Asn Val Pro Pro Trp Gln Ser Ser
130 135 140

Arg Val Gln Asp Pro Thr Gly Lys Gly Ala Gly Gly Pro Arg Gly Ser
145 150 155 160

Ser Glu Thr Val Gly Ala Ala Leu Leu Leu Asn Leu Leu Ala Gly Leu
165 170 175

Gly Ala Met Gly Ala Arg Arg Pro
180

<210> 2251

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2251

Met Val Glu Ala Leu Arg Ala Gly Ser Ala Arg Leu Val Ala Ala Pro
1 5 10 15

Val Ala Thr Ala Asn Pro Ala Arg Cys Leu Ala Leu Asn Val Ser Leu
20 25 30

Arg Glu Trp Thr Ala Arg Tyr Gly Ala Ala Pro Ala Ala Pro Arg Cys
35 40 45

Asp Ala Leu Asp Gly Asp Ala Val Val Leu Leu Arg Ala Arg Asp Leu
50 55 60

Phe Asn Leu Ser Ala Pro Leu Ala Arg Pro Val Gly Thr Ser Leu Phe
65 70 75 80

Leu Gln Thr Ala Leu Arg Gly Trp Ala Val Gln Leu Leu Asp Leu Thr
85 90 95

Phe Ala Ala Ala Arg Gln Pro Pro Leu Ala Thr Ala His Ala Arg Trp
100 105 110

Lys Ala Glu Arg Glu Gly Arg Ala Arg Arg Ala Ala Leu Leu Arg Ala
115 120 125

Leu Gly Ile Arg Leu Val Ser Trp Glu Gly Gly Arg Leu Glu Trp Phe
130 135 140

Gly Cys Asn Lys Glu Thr Thr Arg Cys Phe Gly Thr Val Val Gly Asp
145 150 155 160

Thr Pro Ala Tyr Leu Tyr Glu Glu Arg Trp Thr Pro Pro Cys Cys Leu
165 170 175

Arg Ala Leu Arg Glu Thr Ala Arg Tyr Val Val Gly Val Leu Glu Ala
180 185 190

Ala Gly Val Arg Tyr Trp Leu Glu Gly Gly Ser Leu Leu Gly Ala Ala
195 200 205

Arg His Gly Asp Ile Ile Pro Trp Asp Tyr Asp Val Asp Leu Gly Ile
210 215 220

Tyr Leu Glu Asp Val Gly Asn Cys Glu Gln Leu Arg Gly Ala Glu Ala
225 230 235 240

Gly Ser Val Val Asp Glu Arg Gly Phe Val Trp Glu Lys Ala Val Glu
245 250 255

Gly Asp Phe Phe Arg Val Gln Tyr Ser Glu Ser Asn His Leu His Val
260 265 270

Asp Leu Trp Pro Phe Tyr Pro Arg Asn Gly Val Met Thr Lys Asp Thr
275 280 285

Trp Leu Asp His Arg Gln Asp Val Glu Phe Pro Glu His Phe Leu Gln
290 295 300

Pro Leu Val Pro Leu Pro Phe Ala Gly Phe Val Ala Gln Ala Pro Asn
305 310 315 320

Asn Tyr Arg Arg Phe Leu Glu Leu Lys Phe Gly Pro Gly Val Ile Glu
325 330 335

Asn Pro Gln Tyr Pro Asn Pro Ala Leu Leu Ser Leu Thr Gly Ser Gly
340 345 350

<210> 2252

<211> 448

<212> PRT

<213> Homo sapiens

<400> 2252

Met Ala Trp Ala Ser Arg Leu Gly Leu Leu Ala Leu Leu Pro
1 5 10 15

Val Val Gly Ala Ser Thr Pro Gly Thr Val Val Arg Leu Asn Lys Ala
20 25 30

Ala Leu Ser Tyr Val Ser Glu Ile Gly Lys Ala Pro Leu Gln Arg Ala
35 40 45

Leu Gln Val Thr Val Pro His Phe Leu Asp Trp Ser Gly Glu Ala Leu
50 55 60

Gln Pro Thr Arg Ile Arg Ile Leu Asn Val His Val Pro Arg Leu His
65 70 75 80

Leu Lys Phe Ile Ala Gly Phe Gly Val Arg Leu Leu Ala Ala Asn
85 90 95

Phe Thr Phe Lys Val Phe Arg Ala Pro Glu Pro Leu Glu Leu Thr Leu
100 105 110

Pro Val Glu Leu Leu Ala Asp Thr Arg Val Thr Gln Ser Ser Ile Arg
115 120 125

Thr Pro Val Val Ser Ile Ser Ala Cys Ser Leu Phe Ser Gly His Ala
130 135 140

Asn Glu Phe Asp Gly Ser Asn Ser Thr Ser His Ala Leu Leu Val Leu
145 150 155 160

Val Gln Lys His Ile Lys Ala Val Leu Ser Asn Lys Leu Cys Leu Ser
165 170 175

Ile Ser Asn Leu Val Gln Gly Val Asn Val His Leu Gly Thr Leu Ile
180 185 190

Gly Leu Asn Pro Val Gly Pro Glu Ser Gln Ile Arg Tyr Ser Met Val
195 200 205

Ser Val Pro Thr Val Thr Ser Asp Tyr Ile Ser Leu Glu Val Asn Ala
210 215 220

Val Leu Phe Leu Leu Gly Lys Pro Ile Ile Leu Pro Thr Asp Ala Thr
225 230 235 240

Pro Phe Val Leu Pro Arg His Val Gly Thr Glu Gly Ser Met Ala Thr
245 250 255

Val Gly Leu Ser Gln Gln Leu Phe Asp Ser Ala Leu Leu Leu Gln
260 265 270

Lys Ala Gly Ala Leu Asn Leu Asp Ile Thr Gly Gln Leu Arg Ser Asp
275 280 285

Asp Asn Leu Leu Asn Thr Ser Ala Leu Gly Arg Leu Ile Pro Glu Val
290 295 300

Ala Arg Gln Phe Pro Glu Pro Met Pro Val Val Leu Lys Val Arg Leu
305 310 315 320

Gly Ala Thr Pro Val Ala Met Leu His Thr Asn Asn Ala Thr Leu Arg
325 330 335

Leu Gln Pro Phe Val Glu Val Leu Ala Thr Ala Ser Asn Ser Ala Phe
340 345 350

Gln Ser Leu Phe Ser Leu Asp Val Val Asn Leu Arg Leu Gln Leu
355 360 365

Ser Val Ser Lys Val Lys Leu Gln Gly Thr Thr Ser Val Leu Gly Asp
370 375 380

Val Gln Leu Thr Val Ala Ser Ser Asn Val Gly Phe Ile Asp Thr Asp
385 390 395 400

Gln Val Arg Thr Leu Met Gly Thr Val Phe Glu Lys Pro Leu Leu Asp
405 410 415

His Leu Asn Ala Leu Leu Ala Met Gly Ile Ala Leu Pro Gly Val Val
420 425 430

Asn Leu His Tyr Val Pro Leu Arg Ser Leu Ser Met Arg Ala Thr Trp
435 440 445

<210> 2253

<211> 183

<212> PRT

<213> Homo sapiens

<400> 2253

Met Glu Pro Glu Glu Gly Thr Pro Leu Trp Arg Leu Gln Lys Leu Pro
1 5 10 15

Ala Glu Leu Gly Pro Gln Leu Leu His Lys Ile Ile Asp Gly Ile Cys
20 25 30

Gly Arg Ala Tyr Pro Val Tyr Gln Asp Tyr His Thr Val Trp Glu Ser

35

40

45

<210> 2254

<211> 121

<212> PRT

<213> *Homo sapiens*

<400> 2254

Met Pro Cys

1

20	25	30
Thr Trp Cys Asn Phe Gln Phe Tyr Thr Ser Leu Met Asn Ser Val Asn		
35	40	45
Arg Gln His Lys Tyr Asn Ser Val Ile Pro Met Arg Pro Leu Asn Asn		
50	55	60
Pro Leu Pro Arg Glu Arg Thr Pro Phe Ala Leu Gln Thr Ile Asn Ala		
65	70	75
Leu Glu Glu Glu Ser Arg Gly Phe Pro Thr Gln Val Glu Arg Ile Phe		
85	90	95
Gln Glu Ser Val Tyr Lys Thr Gln Gln Thr Ile Trp Lys Glu Thr Arg		
100	105	110
Asn Met Val Gln Arg Gln Phe Ile Ala		
115	120	

<210> 2255

<211> 251

<212> PRT

<213> Homo sapiens

<400> 2255

Met Leu Phe His Tyr Asp Trp Ile Ser Ile Pro Leu Val Tyr Thr Gln
1 5 10 15

Val Val Thr Ile Ala Val Tyr Ser Phe Phe Ala Leu Ser Leu Val Gly
20 25 30

Arg Gln Phe Val Glu Pro Glu Ala Gly Ala Ala Lys Pro Gln Lys Leu
35 40 45

Leu Lys Pro Gly Gln Glu Pro Ala Pro Ala Leu Gly Asp Pro Asp Met
50 55 60

Tyr Val Pro Leu Thr Thr Leu Leu Gln Phe Phe Tyr Ala Gly Trp
65 70 75 80

Leu Lys Val Ala Glu Gln Ile Ile Asn Pro Phe Gly Glu Asp Asp Asp
85 90 95

Asp Phe Glu Thr Asn Gln Leu Ile Asp Arg Asn Leu Gln Val Ser Leu
100 105 110

Leu Ser Val Asp Glu Met Tyr Gln Asn Leu Pro Pro Ala Glu Lys Asp
115 120 125

Gln Tyr Trp Asp Glu Asp Gln Pro Gln Pro Pro Tyr Thr Val Ala Thr
130 135 140

Ala Ala Glu Ser Leu Arg Pro Ser Phe Leu Gly Ser Thr Phe Asn Leu
145 150 155 160

Arg Met Ser Asp Asp Pro Glu Gln Ser Leu Gln Val Glu Ala Ser Pro
165 170 175

Gly Ser Gly Arg Pro Ala Pro Ala Ala Gln Thr Pro Leu Leu Gly Arg
180 185 190

Phe Leu Gly Val Gly Ala Pro Ser Pro Ala Ile Ser Leu Arg Asn Phe
195 200 205

Gly Arg Val Arg Gly Thr Pro Arg Pro Pro His Leu Leu Arg Phe Arg
210 215 220

Ala Glu Glu Gly Gly Asp Pro Glu Ala Ala Ala Arg Ile Glu Glu Glu
225 230 235 240

Ser Ala Glu Ser Gly Asp Glu Ala Leu Glu Pro
245 250

<210> 2256

<211> 125
<212> PRT
<213> Homo sapiens

<400> 2256
Met Arg Pro Gly Lys Lys Val Leu Val Met Gly Ile Val Asp Leu Asn
1 5 10 15
Pro Glu Ser Phe Ala Ile Ser Leu Thr Cys Gly Asp Ser Glu Asp Pro
20 25 30
Pro Ala Asp Val Ala Ile Glu Leu Lys Ala Val Phe Thr Asp Arg Gln
35 40 45
Leu Leu Arg Asn Ser Cys Ile Ser Gly Glu Arg Gly Glu Glu Gln Ser
50 55 60
Ala Ile Pro Tyr Phe Pro Phe Ile Pro Asp Gln Pro Phe Arg Val Glu
65 70 75 80
Ile Leu Cys Glu His Pro Arg Phe Arg Val Phe Val Asp Gly His Gln
85 90 95
Leu Phe Asp Phe Tyr His Arg Ile Gln Thr Leu Ser Ala Ile Asp Thr
100 105 110
Ile Lys Ile Asn Gly Asp Leu Gln Ile Thr Lys Leu Gly
115 120 125

<210> 2257
<211> 170
<212> PRT
<213> Homo sapiens

<400> 2257
Met Ile Ser Ile His Asn Glu Glu Glu Asn Ala Phe Ile Leu Asp Thr
1 5 10 15
Leu Lys Lys Gln Trp Lys Gly Pro Asp Asp Ile Leu Leu Gly Met Phe
20 25 30
Tyr Asp Thr Asp Asp Ala Ser Phe Lys Trp Phe Asp Asn Ser Asn Met
35 40 45
Thr Phe Asp Lys Trp Thr Asp Gln Asp Asp Asp Glu Asp Leu Val Asp
50 55 60
Thr Cys Ala Phe Leu His Ile Lys Thr Gly Glu Trp Lys Lys Gly Asn
65 70 75 80
Cys Glu Val Ser Ser Val Glu Gly Thr Leu Cys Lys Thr Ala Ile Pro
85 90 95
Tyr Lys Arg Lys Tyr Leu Ser Asp Asn His Ile Leu Ile Ser Ala Leu
100 105 110
Val Ile Ala Ser Thr Val Ile Leu Thr Val Leu Gly Ala Ile Ile Trp
115 120 125

Phe	Leu	Tyr	Lys	Lys	His	Ser	Asp	Ser	Arg	Phe	Thr	Thr	Val	Phe	Ser
130					135					140					
Thr	Ala	Pro	Gln	Ser	Pro	Tyr	Asn	Glu	Asp	Cys	Val	Leu	Val	Val	Gly
145					150					155					160
Glu	Glu	Asn	Glu	Tyr	Pro	Val	Gln	Phe	Asp						
					165					170					

<210> 2258

<211> 595

<212> PRT

<213> Homo sapiens

<400> 2258

Met	Leu	Leu	Leu	Leu	Leu	Leu	Pro	Pro	Leu	Leu	Cys	Gly	Arg	Val
1							10				15			

Gly	Ala	Lys	Glu	Gln	Lys	Asp	Tyr	Leu	Leu	Thr	Met	Gln	Lys	Ser	Val
							20			25		30			

Thr	Val	Gln	Glu	Gly	Leu	Cys	Val	Ser	Val	Leu	Cys	Ser	Phe	Ser	Tyr
							35			40		45			

Pro	Gln	Asn	Gly	Trp	Thr	Ala	Ser	Asp	Pro	Val	His	Gly	Tyr	Trp	Phe
							50			55		60			

Arg	Ala	Gly	Asp	His	Val	Ser	Arg	Asn	Ile	Pro	Val	Ala	Thr	Asn	Asn
							65			70		75		80	

Pro	Ala	Arg	Ala	Val	Gln	Glu	Glu	Thr	Arg	Asp	Arg	Phe	His	Leu	Leu
								85			90		95		

Gly	Asp	Pro	Gln	Asn	Lys	Asp	Cys	Thr	Leu	Ser	Ile	Arg	Asp	Thr	Arg
							100			105		110			

Glu	Ser	Asp	Ala	Gly	Thr	Tyr	Val	Phe	Cys	Val	Glu	Arg	Gly	Asn	Met
							115			120		125			

Lys	Trp	Asn	Tyr	Lys	Tyr	Asp	Gln	Leu	Ser	Val	Asn	Val	Thr	Ala	Ser
							130			135		140			

Gln	Asp	Leu	Leu	Ser	Arg	Tyr	Arg	Leu	Glu	Val	Pro	Glu	Ser	Val	Thr
145							150			155		160			

Val	Gln	Glu	Gly	Leu	Cys	Val	Ser	Val	Pro	Cys	Ser	Val	Leu	Tyr	Pro
							165			170		175			

His	Tyr	Asn	Trp	Thr	Ala	Ser	Ser	Pro	Val	Tyr	Gly	Ser	Trp	Phe	Lys
							180			185		190			

Glu	Gly	Ala	Asp	Ile	Pro	Trp	Asp	Ile	Pro	Val	Ala	Thr	Asn	Thr	Pro
							195			200		205			

Ser	Gly	Lys	Val	Gln	Glu	Asp	Thr	His	Gly	Arg	Phe	Leu	Leu	Gly	
							210			215		220			

Asp Pro Gln Thr Asn Asn Cys Ser Leu Ser Ile Arg Asp Ala Arg Lys
225 230 235 240
Gly Asp Ser Gly Lys Tyr Tyr Phe Gln Val Glu Arg Gly Ser Arg Lys
245 250 255
Trp Asn Tyr Ile Tyr Asp Lys Leu Ser Val His Val Thr Ala Leu Thr
260 265 270
His Met Pro Thr Phe Ser Ile Pro Gly Thr Leu Glu Ser Gly His Pro
275 280 285
Arg Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln Gly Thr Pro
290 295 300
Pro Thr Ile Thr Trp Met Gly Ala Ser Val Ser Ser Leu Asp Pro Thr
305 310 315 320
Ile Thr Arg Ser Ser Met Leu Ser Leu Ile Pro Gln Pro Gln Asp His
325 330 335
Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala Gly Val Thr
340 345 350
Met Thr Arg Ala Val Arg Leu Asn Ile Ser Tyr Pro Pro Gln Asn Leu
355 360 365
Thr Met Thr Val Phe Gln Gly Asp Gly Thr Ala Ser Thr Thr Leu Arg
370 375 380
Asn Gly Ser Ala Leu Ser Val Leu Glu Gly Gln Ser Leu His Leu Val
385 390 395 400
Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp Thr Trp Gly
405 410 415
Ser Leu Thr Leu Ser Pro Ser Gln Ser Ser Asn Leu Gly Val Leu Glu
420 425 430
Leu Pro Arg Val His Val Lys Asp Glu Gly Glu Phe Thr Cys Arg Ala
435 440 445
Gln Asn Pro Leu Gly Ser Gln His Ile Ser Leu Ser Leu Ser Leu Gln
450 455 460
Asn Glu Tyr Thr Gly Lys Met Arg Pro Ile Ser Gly Val Thr Leu Gly
465 470 475 480
Ala Phe Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Tyr Phe Cys
485 490 495
Ile Ile Phe Val Val Val Arg Ser Cys Arg Lys Lys Ser Ala Arg Pro
500 505 510
Ala Val Gly Val Gly Asp Thr Gly Met Glu Asp Ala Asn Ala Val Arg
515 520 525
Gly Ser Ala Ser Gln Gly Pro Leu Ile Glu Ser Pro Ala Asp Asp Ser
530 535 540

Pro Pro His His Ala Pro Pro Ala Leu Ala Thr Pro Ser Pro Glu Glu
545 550 555 560
Gly Glu Ile Gln Tyr Ala Ser Leu Ser Phe His Lys Ala Arg Pro Gln
565 570 575
Tyr Pro Gln Glu Gln Glu Ala Ile Gly Tyr Glu Tyr Ser Glu Ile Asn
580 585 590
Ile Pro Lys
595

<210> 2259

<211> 274

<212> PRT

<213> Homo sapiens

<400> 2259

Met Ser Ser Asn Gly Ile Pro Glu Cys Tyr Ala Glu Glu Asp Glu Phe
1 5 10 15

Ser Gly Leu Glu Thr Asp Thr Ala Val Pro Thr Glu Glu Ala Tyr Val
20 25 30

Ile Tyr Asp Glu Asp Tyr Glu Phe Glu Thr Ser Arg Pro Pro Thr Thr
35 40 45

Thr Glu Pro Ser Thr Thr Ala Thr Thr Pro Arg Val Ile Pro Glu Glu
50 55 60

Gly Ala Ile Ser Ser Phe Pro Glu Glu Phe Asp Leu Ala Gly Arg
65 70 75 80

Lys Arg Phe Val Ala Pro Tyr Val Thr Tyr Leu Asn Lys Asp Pro Ser
85 90 95

Ala Pro Cys Ser Leu Thr Asp Ala Leu Asp His Phe Gln Val Asp Ser
100 105 110

Leu Asp Glu Ile Ile Pro Asn Asp Leu Lys Lys Ser Asp Leu Pro Pro
115 120 125

Gln His Ala Pro Arg Asn Ile Thr Val Val Ala Val Glu Gly Cys His
130 135 140

Ser Phe Val Ile Val Asp Trp Asp Lys Ala Thr Pro Gly Asp Val Val
145 150 155 160

Thr Gly Tyr Leu Val Tyr Ser Ala Ser Tyr Glu Asp Phe Ile Arg Asn
165 170 175

Lys Trp Ser Thr Gln Ala Ser Ser Val Thr His Leu Pro Ile Glu Asn
180 185 190

Leu Lys Pro Asn Thr Arg Tyr Tyr Phe Lys Val Gln Ala Gln Asn Pro
195 200 205

His Gly Tyr Gly Pro Ile Ser Pro Ser Val Ser Phe Val Thr Glu Ser

210

215

220

Asp Asn Pro Leu Leu Val Val Arg Pro Pro Gly Gly Glu Pro Ile Trp
 225 230 235 240

Ile Pro Phe Ala Phe Lys His Asp Pro Ser Tyr Thr Asp Cys His Gly
 245 250 255

Arg Gln Tyr Val Lys Arg Thr Leu Val Ser Lys Val Arg Gly Ser Trp
 260 265 270

Ser Leu

<210> 2260

<211> 468

<212> PRT

<213> Homo sapiens

<400> 2260

Met Pro Ala Leu His Thr Leu Asn Leu Asp His Asn Leu Ile Asp Ala
 1 5 10 15

Leu Pro Pro Gly Ala Phe Ala Gln Leu Gly Gln Leu Ser Arg Leu Asp
 20 25 30

Leu Thr Ser Asn Arg Leu Ala Thr Leu Ala Pro Asp Pro Leu Phe Ser
 35 40 45

Arg Gly Arg Asp Ala Glu Ala Ser Pro Ala Pro Leu Val Leu Ser Phe
 50 55 60

Ser Gly Asn Pro Leu His Cys Asn Cys Glu Leu Leu Trp Leu Arg Arg
 65 70 75 80

Leu Ala Arg Pro Asp Asp Leu Glu Thr Cys Ala Ser Pro Pro Gly Leu
 85 90 95

Ala Gly Arg Tyr Phe Trp Ala Val Pro Glu Gly Glu Phe Ser Cys Glu
 100 105 110

Pro Pro Leu Ile Ala Arg His Thr Gln Arg Leu Trp Val Leu Glu Gly
 115 120 125

Gln Arg Ala Thr Leu Arg Cys Arg Ala Leu Gly Asp Pro Ala Pro Thr
 130 135 140

Met His Trp Val Gly Pro Asp Asp Arg Leu Val Gly Asn Ser Ser Arg
 145 150 155 160

Ala Arg Ala Phe Pro Asn Gly Thr Leu Glu Ile Gly Ala Thr Gly Ala
 165 170 175

Gly Asp Ala Gly Gly Tyr Thr Cys Ile Ala Thr Asn Pro Ala Gly Glu
 180 185 190

Ala Thr Ala Arg Val Glu Leu Arg Val Leu Ala Leu Pro His Gly Gly
 195 200 205

Asn Ser Ser Ala Glu Gly Gly Arg Pro Gly Pro Ser Asp Ile Ala Ala
210 215 220
Ser Ala Arg Thr Ala Ala Glu Gly Glu Gly Thr Leu Glu Ser Glu Pro
225 230 235 240
Ala Val Gln Val Thr Glu Val Thr Ala Thr Ser Gly Leu Val Ser Trp
245 250 255
Gly Pro Gly Arg Pro Ala Asp Pro Val Trp Met Phe Gln Ile Gln Tyr
260 265 270
Asn Ser Ser Glu Asp Glu Thr Leu Ile Tyr Arg Ile Val Pro Ala Ser
275 280 285
Ser His His Phe Leu Leu Lys His Leu Val Pro Gly Ala Asp Tyr Asp
290 295 300
Leu Cys Leu Leu Ala Leu Ser Pro Ala Ala Gly Pro Ser Asp Leu Thr
305 310 315 320
Ala Thr Arg Leu Leu Gly Cys Ala His Phe Ser Thr Leu Pro Ala Ser
325 330 335
Pro Leu Cys His Ala Leu Gln Ala His Val Leu Gly Gly Thr Leu Thr
340 345 350
Val Ala Val Gly Gly Val Leu Val Ala Ala Leu Leu Val Phe Thr Val
355 360 365
Ala Leu Leu Val Arg Gly Arg Gly Ala Gly Asn Gly Arg Leu Pro Leu
370 375 380
Lys Leu Ser His Val Gln Ser Gln Thr Asn Gly Gly Pro Ser Pro Thr
385 390 395 400
Pro Lys Ala His Pro Pro Arg Ser Pro Pro Pro Arg Pro Gln Arg Ser
405 410 415
Cys Ser Leu Asp Leu Gly Asp Ala Gly Cys Tyr Gly Tyr Ala Arg Arg
420 425 430
Leu Gly Gly Ala Trp Ala Arg Arg Ser His Ser Val His Gly Gly Leu
435 440 445
Leu Gly Ala Gly Cys Arg Gly Val Gly Gly Ser Ala Glu Arg Leu Glu
450 455 460
Glu Ser Val Val
465

<210> 2261
<211> 86

<212> PRT

<213> Homo sapiens

<400> 2261

Met Asn Arg Gly Asp Phe Leu Leu Ser Val Asn Gly Ala Ser Leu Ala
1 5 10 15
Gly Leu Ala His Gly Asn Val Leu Lys Val Leu His Gln Ala Gln Leu
20 25 30
His Lys Asp Ala Leu Val Val Ile Lys Lys Gly Met Asp Gln Pro Arg
35 40 45
Pro Ser Ala Arg Gln Glu Pro Pro Thr Ala Asn Gly Lys Gly Leu Leu
50 55 60
Ser Arg Lys Thr Ile Pro Leu Glu Pro Gly Ile Gly Lys Met Ile Ile
65 70 75 80
Ser Thr Thr Ser Arg Leu
85

<210> 2262

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2262

Met Lys Gly Ser Arg Ala Leu Leu Leu Val Ala Leu Thr Leu Phe Cys
1 5 10 15

Ile Cys Arg Met Ala Thr Gly Glu Asp Asn Asp Glu Phe Phe Met Asp
20 25 30

Phe Leu Gln Thr Leu Leu Val Gly Thr Pro Glu Glu Leu Tyr Glu Gly
35 40 45

Thr Leu Gly Lys Tyr Asn Val Asn Glu Asp Ala Lys Ala Ala Met Thr
50 55 60

Glu Leu Lys Ser Cys Ile Asp Gly Leu Gln Pro Met His Lys Ala Glu
65 70 75 80

Leu Val Lys Leu Leu Val Gln Val Leu Gly Ser Gln Asp Gly Ala Gly
85 90 95

Thr Asp Tyr Lys Asp Asp Asp Asp Lys
100 105

<210> 2263

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2263

Met Ala Ala Ser Val Cys Ser Gly Leu Leu Gly Pro Arg Val Leu Ser
1 5 10 15

Trp Ser Arg Glu Leu Pro Cys Ala Trp Arg Ala Leu His Thr Ser Pro
20 25 30

Val	Cys	Ala	Lys	Asn	Arg	Ala	Ala	Arg	Val	Arg	Val	Ser	Lys	Gly	Asp
35															45
Lys	Pro	Val	Thr	Tyr	Glu	Glu	Ala	His	Ala	Pro	His	Tyr	Ile	Ala	His
50															60
Arg	Lys	Gly	Trp	Leu	Ser	Leu	His	Thr	Gly	Asn	Leu	Asp	Gly	Glu	Asp
65															80
His	Ala	Ala	Glu	Arg	Thr	Val	Glu	Asp	Val	Phe	Leu	Arg	Lys	Phe	Met
85															95
Trp	Gly	Thr	Phe	Pro	Gly	Cys	Leu	Ala	Asp	Gln	Leu	Val	Leu	Lys	Arg
100															110
Arg	Gly	Asn	Gln	Leu	Glu	Ile	Cys	Ala	Val	Val	Leu	Arg	Gln	Leu	Ser
115															125
Pro	His	Lys	Tyr	Tyr	Phe	Leu	Val	Gly	Tyr	Ser	Glu	Thr	Leu	Leu	Ser
130															140
Tyr	Phe	Tyr	Lys	Cys	Pro	Val	Arg	Leu	His	Leu	Gln	Thr	Val	Pro	Ser
145															160
Lys	Val	Val	Tyr	Lys	Tyr	Leu									
							165								

<210> 2264

<211> 203

<212> PRT

<213> Homo sapiens

<400> 2264

Met	Ala	Arg	Pro	Arg	Pro	Arg	Glu	Tyr	Lys	Ala	Gly	Asp	Leu	Val	Phe
1															15

Ala	Lys	Met	Lys	Gly	Tyr	Pro	His	Trp	Pro	Ala	Arg	Ile	Asp	Glu	Leu
20															30

Pro	Glu	Gly	Ala	Val	Lys	Pro	Pro	Ala	Asn	Lys	Tyr	Pro	Ile	Phe	Phe
35															45

Phe	Gly	Thr	His	Glu	Thr	Ala	Phe	Leu	Gly	Pro	Lys	Asp	Leu	Phe	Pro
50															60

Tyr	Lys	Glu	Tyr	Lys	Asp	Lys	Phe	Gly	Lys	Ser	Asn	Lys	Arg	Lys	Gly
65															80

Phe	Asn	Glu	Gly	Leu	Trp	Glu	Ile	Glu	Asn	Asn	Pro	Gly	Val	Lys	Phe
85															95

Thr	Gly	Tyr	Gln	Ala	Ile	Gln	Gln	Ser	Ser	Ser	Glu	Thr	Glu	Gly	
100															110

Glu	Gly	Gly	Asn	Thr	Ala	Asp	Ala	Ser	Ser	Glu	Glu	Gly	Asp	Arg	
115															125

Val Glu Glu Asp Gly Lys Gly Lys Arg Lys Asn Glu Lys Ala Gly Ser
130 135 140
Lys Arg Lys Lys Ser Tyr Thr Ser Lys Lys Ser Ser Lys Gln Ser Arg
145 150 155 160
Lys Ser Pro Gly Asp Glu Asp Asp Lys Asp Cys Lys Glu Glu Asn
165 170 175
Lys Ser Ser Ser Glu Gly Gly Asp Ala Gly Asn Asp Thr Arg Asn Thr
180 185 190
Thr Ser Asp Leu Gln Lys Thr Ser Glu Gly Thr
195 200

<210> 2265

<211> 253

<212> PRT

<213> Homo sapiens

<400> 2265

Met Arg Ser Gly Lys Met Ala Pro Lys Pro Gln Ser Arg Cys Thr Ser
1 5 10 15

Thr Arg Ser Ala Gly Glu Ala Pro Ser Glu Asn Gln Ser Pro Ser Lys
20 25 30

Gly Pro Glu Glu Ala Ser Ser Glu Val Gln Asp Thr Asn Glu Val His
35 40 45

Val Pro Gly Asp Gln Asp Glu Pro Gln Thr Leu Gly Lys Lys Gly Ser
50 55 60

Lys Asn Asn Ile Ser Val Tyr Met Thr Leu Asn Gln Lys Lys Ser Asp
65 70 75 80

Ser Ser Ser Ala Ser Val Cys Ser Ile Asp Ser Thr Asp Asp Leu Lys
85 90 95

Ser Ser Asn Ser Glu Cys Ser Ser Ser Glu Ser Phe Asp Phe Pro Pro
100 105 110

Gly Ser Met His Ala Pro Ser Thr Ser Ser Thr Ser Ser Ser Ser Lys
115 120 125

Glu Glu Lys Lys Leu Ser Asn Ser Leu Lys Met Lys Val Phe Ser Lys
130 135 140

Asn Val Ser Lys Cys Val Thr Pro Asp Gly Arg Thr Ile Cys Val Gly
145 150 155 160

Asp Ile Val Trp Ala Lys Ile Tyr Gly Phe Pro Trp Trp Pro Ala Arg
165 170 175

Ile Leu Thr Ile Thr Val Ser Arg Lys Asp Asn Gly Leu Leu Val Arg
180 185 190

Gln Glu Ala Arg Ile Ser Trp Phe Gly Ser Pro Thr Thr Ser Phe Leu

195

200

205

Ala	Leu	Ser	Gln	Leu	Ser	Pro	Phe	Leu	Glu	Asn	Phe	Gln	Ser	Arg	Phe
210															
Asn	Lys	Lys	Arg	Lys	Gly	Leu	Tyr	Arg	Lys	Ala	Ile	Thr	Glu	Ala	Ala
225															
Lys	Ala	Ala	Lys	Gln	Leu	Thr	Pro	Glu	Val	Arg	Ala	Cys			
													245	250	

<210> 2266

<211> 314

<212> PRT

<213> Homo sapiens

<400> 2266

Met	Pro	His	Ala	Phe	Lys	Pro	Gly	Asp	Leu	Val	Phe	Ala	Lys	Met	Lys
1														15	

Gly	Tyr	Pro	His	Trp	Pro	Ala	Arg	Ile	Asp	Asp	Ile	Ala	Asp	Gly	Ala
20														30	

Val	Lys	Pro	Pro	Pro	Asn	Lys	Tyr	Pro	Ile	Phe	Phe	Phe	Gly	Thr	His
35														45	

Glu	Thr	Ala	Phe	Leu	Gly	Pro	Lys	Asp	Leu	Phe	Pro	Tyr	Asp	Lys	Cys
50														60	

Lys	Asp	Lys	Tyr	Gly	Lys	Pro	Asn	Lys	Arg	Lys	Gly	Phe	Asn	Glu	Gly
65														80	

Leu	Trp	Glu	Ile	Gln	Asn	Asn	Pro	His	Ala	Ser	Tyr	Ser	Ala	Pro	Pro
85														95	

Pro	Val	Ser	Ser	Ser	Asp	Ser	Glu	Ala	Pro	Glu	Ala	Asn	Pro	Ala	Asp
100														110	

Gly	Ser	Asp	Ala	Asp	Glu	Asp	Asp	Glu	Asp	Arg	Gly	Val	Met	Ala	Val
115														125	

Thr	Ala	Val	Thr	Ala	Thr	Ala	Ala	Ser	Asp	Arg	Met	Glu	Ser	Asp	Ser
130														140	

Asp	Ser	Asp	Lys	Ser	Ser	Asp	Asn	Ser	Gly	Leu	Lys	Arg	Lys	Thr	Pro
145														160	

Ala	Leu	Lys	Met	Ser	Val	Ser	Lys	Arg	Ala	Arg	Lys	Ala	Ser	Ser	Asp
165														175	

Leu	Asp	Gln	Ala	Ser	Val	Ser	Pro	Ser	Glu	Glu	Glu	Asn	Ser	Glu	Ser
180														190	

Ser	Ser	Glu	Ser	Glu	Lys	Thr	Ser	Asp	Gln	Asp	Phe	Thr	Pro	Glu	Lys
195														205	

Lys	Ala	Ala	Val	Arg	Ala	Pro	Arg	Arg	Gly	Pro	Leu	Gly	Gly	Arg	Lys
210														220	

Lys Lys Lys Ala Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser
225 230 235 240
Asp Gly Ala Lys Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser
245 250 255
Ser Ser Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys
260 265 270
Pro Pro Arg Gly Arg Lys Pro Thr Glu Lys Pro Leu Pro Lys Pro Arg
275 280 285
Gly Arg Lys Pro Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Asp
290 295 300
Ser Asp Ser Asp Glu Val Asp Arg Ile Thr
305 310

<210> 2267

<211> 281

<212> PRT

<213> Homo sapiens

<400> 2267

Met Gly Ser Arg Gly Gln Gly Leu Leu Leu Ala Tyr Cys Leu Leu Leu
1 5 10 15

Ala Phe Ala Ser Gly Leu Val Leu Ser Arg Val Pro His Val Gln Gly
20 25 30

Glu Gln Gln Glu Trp Glu Gly Thr Glu Glu Leu Pro Ser Pro Pro Asp
35 40 45

His Ala Glu Arg Ala Glu Glu Gln His Glu Lys Tyr Arg Pro Ser Gln
50 55 60

Asp Gln Gly Leu Pro Ala Ser Arg Cys Leu Arg Cys Cys Asp Pro Gly
65 70 75 80

Thr Ser Met Tyr Pro Ala Thr Ala Val Pro Gln Ile Asn Ile Thr Ile
85 90 95

Leu Lys Gly Glu Lys Gly Asp Arg Gly Asp Arg Gly Leu Gln Gly Lys
100 105 110

Tyr Gly Lys Thr Gly Ser Ala Gly Ala Arg Gly His Thr Gly Pro Lys
115 120 125

Gly Gln Lys Gly Ser Met Gly Ala Pro Gly Glu Arg Cys Lys Ser His
130 135 140

Tyr Ala Ala Phe Ser Val Gly Arg Lys Lys Pro Met His Ser Asn His
145 150 155 160

Tyr Tyr Gln Thr Val Ile Phe Asp Thr Glu Phe Val Asn Leu Tyr Asp
165 170 175

His Phe Asn Met Phe Thr Gly Lys Phe Tyr Cys Tyr Val Pro Gly Leu
180 185 190

Tyr Phe Phe Ser Leu Asn Val His Thr Trp Asn Gln Lys Glu Thr Tyr
195 200 205

Leu His Ile Met Lys Asn Glu Glu Glu Val Ala Ile Leu Phe Ala Gln
210 215 220

Val Gly Asp Arg Ser Ile Met Gln Ser Gln Ser Leu Met Leu Glu Leu
225 230 235 240

Arg Glu Gln Asp Gln Val Trp Val Arg Leu Tyr Lys Gly Glu Arg Glu
245 250 255

Asn Ala Ile Phe Ser Glu Glu Leu Asp Thr Tyr Ile Thr Phe Ser Gly
260 265 270

Tyr Leu Val Lys His Ala Thr Glu Pro
275 280